Full Stack Javascript Development Develop Test And Deploy With Mongodb Express Angular And Node On Aws

Build a Full-Stack applications that uses Microsoft Azure DocumentDB, and host everything in the cloud in an economic and agile way. This book presents the theory and practical implementation details of DocumentDB. It also shows you not just what it is and how to set it up, but also how to access it through a Node.js middle-tier layer. With Microsoft Azure DocumentDB and a Full-Stack JavaScript development stack, you can build professional applications.

Build an interactive and full-featured web application from scratch using Node.js and MongoDB About This Book Configure your development environment to use Node.js and MongoDB Use Node.js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only requirement for this book. What You Will Learn Configure your development environment to use Node.js and MongoDB

Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore Single-Page application frameworks to take your web applications to the next level In Detail Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high-performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a

running web application developed with MongoDB and Node.js along with it's popular frameworks. Style and approach An easy guide to Node.js and MongoDB, which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application.

Quick Start Full Stack Web Development removes the trial and error from learning to make web applications. Being a full stack web developer does not mean knowing everything about every web technology,but rather knowing enough to build a complete application including a front end, a back end, and a database. Web searching can provide useful snippets of information, but integrating those pieces into a working whole remains a challenge. This book will walk the reader through both the component technologies and the steps required to get the pieces to work together. This clear focus can save countless hours of frustration compared to trying to assemble a working solution from inconsistent and outdated sources. The reader should have some familiarity with Python or JavaScript, but no web programming experience is assumed. Quick Start Full Stack Web Development explains key concepts, such as REST APIs and JSON Web Tokens, and then puts these concepts into practice with real, working examples. The examples are built step-by-step, providing an opportunity to experiment with the ideas. Furthermore, there is a consistent focus on getting instant feedback as changes are made to the code, a good practice for quickly building intuition and gaining experience. The chosen technologies (React, Flask, and PostgreSQL) are excellent

options for newcomers to web development because they are relatively easy to learn, have vibrant supportive communities, and can scale to large and complex applications. Rather than providing a cursory introduction to a variety of technology options, Quick Start Full Stack Web Development provides a thorough foundation in one technology stack. This prevents confusion, provides more opportunities to reinforce concepts, and leads more quickly to significant results. Learn how to: * Build a Python Flask REST API * Develop and style a React client * Design SQLite and PostgreSQL databases using SQLAlchemy * Incorporate JSON Web Tokens (JWT) for authentication * Test it using httpie, browser dev tools, pytest, and Jest * Document it using Sphinx and Storybook * Deploy using Gunicorn and NGINX on a Platform-as-a-Service The result is a fully functional full stack web application that addresses all the little details, like serving the client and API from the same server, managing the environment with a config file, making the documentation visible in the git repository, and populating and uploading databases. Because it focuses on getting to a working application, Quick Start Full Stack Web Development is well suited to entrepreneurs and solopreneurs building out their minimal viable products. And because it explains the concepts and shows them in practice, it will help programmers who want to get into web development. If you want to learn these powerful skills as quickly as possible, then this book is for you.
Takes you through creating your own API, building a full real-time web app, securing

your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js - npm, MongoDB, version control with Git, and many more Book Description Advanced Node.js Development is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the

latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages.With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS lanaguages, OAuth and Everyauth libraries, and the

Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. Fully supported by a continuously updated source code repository on GitHub and with full-color code examples, learn what you can do with Node.js and how far you can take it! What You'll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha, Expect and TravisCI Implement a third-party OAuth strategy with Everyauth Web developers who have some familiarity with the basics of Node.js and want to learn how to use it to build apps in a professional environment.

This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

Learn agile JavaScript web development using the latest cutting-edge front-end and back-end technologies including Node.js, MongoDB, Backbone.js, Parse.com, Heroku, and Microsoft Azure. Using a key project example of a message board app, you will

learn the foundations of a typical web application: fetching data, displaying it, and submitting new data. Practical examples of the app build are provided with multiple technologies and all code examples are in full color. This book will save you many hours by providing a hand-picked and tested collection of quick start guides that will enable you to spend less time learning and more time building your own applications. Completely updated for this second edition, Full Stack JavaScript uses current versions of all technologies, including ES6/ES2015 and the latest versions of Node and npm. Prototype fast and ship code that matters! What You'll Learn Use a collection of quick start guides, tutorials, and suggestions, to enhance several development apps Review virtually all setup and deployment step-by-step. Work with Chat web/mobile applications Put front-end and back-end components together and deploy them to production environment Who This Book Is For Programmers who want to learn more about effective JavaScript coding

From client to server, learn how Node.js can help you use JavaScript more effectively to develop faster and more scalable applications with easeAbout This Book• Discover how Node.js can transform the way you develop both the front and back ends - offering a much more modern and integrated form of web development• Create, debug, and test a complete full-stack application using Node.js and other powerful tools• From creating a server from scratch to unit testing code, learn how Node.js extends the possibilities of JavaScript developmentWho This Book Is ForIf you want to expand your

capabilities as a developer this book is for you. Covering everything you need to use Node.js effectively, you will soon be able to handle JavaScript in a much more fully-realised way.What You Will Learn• Create and use an HTTP server using Express.js• Configure environmental variables, arguments, and config files• Use a Key/Value NoSQL database with Node to store data• Create a client-side application using Node and Node.Webkit• Debug applications using Node.Inspector• Create a library that can be used in more than one project• Install packages from NPMIn DetailNode.js is simply a tool that lets you useJavaScript on the server side. But it actually does much more than that – by extending JavaScript it allows for a much more integrated and efficient approach to development. It's no surprise that it's a fundamental tool for full-stack JavaScript developers. Whether your working on the back end or front end – by using Node.js you're adopting a much more collaborative and agile way of working – so you and your team can focus on delivering a quality end product. This will ensure you're ready to take on any new challenges that get thrown at you.NodeJS Essentials takes you through the fundamentals of Node.JS and demonstrates how Node.js can transform the way you work with JavaScript and take greater control over your code.You will also learn how to create a HTTP server from scratch, route requests, create a RESTful interface, and authenticate users. You will also learn to debug applications using Node.Inspector and the importance of logging, as well as creating a reusable library.Finally, you'll find out how to test and optimizr your code when working

with Node.js using the Mocha framework. Follow each step and discover how to test both synchronous and asynchronous code using Mocha unit tests.With Node.js Essentials you'll find everything you need to create a complete full-stack application with Node.js. It will help you harness JavaScript much more effectively – and in doing so expand your confidence and capabilities as a developer.Style and approachThis concise guide will help you get up and running with Node.js. Packed with easy to followexamples, you'll be be able to build a complete full-stack application utilizing Node's capabilities.

Full-Stack JavaScript DevelopmentDevelop, Test and Deploy with MongoDB, Express, Angular and Node on AWS

Build Full-Stack applications with simple to use, yet powerful JavaScript technologies and host everything in the cloud in an economic and agile way. This book contains an all-encompassing presentation of theory, reference and implementation for building three tier architectures - Data Layer (MongoDB), Service Layer (Express/Node.js) and Presentation Layer (Angular). Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service. In-depth coverage of NPM modules like express, async, joi, helmet, jwt-simple, supertest, mongodb and more. Utilize Mocha, Fiddler and Selenium.

Learn everything you need to get up and running with cutting-edge API development using JavaScript and Node.js; ideal for data-intensive real-time applications that run across multiple platforms. Key Features Build web APIs from start to finish using JavaScript across the development stack Explore advanced concepts such as authentication with JWT, and running

tests against your APIs Implement over 20 practical activities and exercises across 9 topics to reinforce your learning Book Description Using the same framework to build both server and client-side applications saves you time and money. This book teaches you how you can use JavaScript and Node.js to build highly scalable APIs that work well with lightweight cross-platform client applications. It begins with the basics of Node.js in the context of backend development, and quickly leads you through the creation of an example client that pairs up with a fully authenticated API implementation. By the end of the book, you'll have the skills and exposure required to get hands-on with your own API development project. What you will learn Understand how Node.js works, its trends, and where it is being used now Learn about application modularization and built-in Node.js modules Use the npm third-party module registry to extend your application Gain an understanding of asynchronous programming with Node.js Develop scalable and high-performing APIs using hapi.js and Knex.js Write unit tests for your APIs to ensure reliability and maintainability Who this book is for This book is ideal for developers who already understand JavaScript and are looking for a quick no-frills introduction to API development with Node.js. Though prior experience with other server-side technologies such as Python, PHP, ASP.NET, Ruby will help, it's not essential to have a background in backend development before getting started.

Develop efficient and modern full-stack applications using Spring Boot and React 16 Key Features Develop resourceful backends using Spring Boot and faultless frontends using React. Explore the techniques involved in creating a full-stack app by going through a methodical approach. Learn to add CRUD functionalities and use Material UI in the user interface to make it more user-friendly. Book Description Apart from knowing how to write frontend and backend

code, a full-stack engineer has to tackle all the problems that are encountered in the application development life cycle, starting from a simple idea to UI design, the technical design, and all the way to implementing, testing, production, deployment, and monitoring. This book covers the full set of technologies that you need to know to become a full-stack web developer with Spring Boot for the backend and React for the frontend. This comprehensive guide demonstrates how to build a modern full-stack application in practice. This book will teach you how to build RESTful API endpoints and work with the data access Layer of Spring, using Hibernate as the ORM. As we move ahead, you will be introduced to the other components of Spring, such as Spring Security, which will teach you how to secure the backend. Then, we will move on to the frontend, where you will be introduced to React, a modern JavaScript library for building fast and reliable user interfaces, and its app development environment and components. You will also create a Docker container for your application. Finally, the book will lay out the best practices that underpin professional full-stack web development. What you will learn Create a RESTful web service with Spring Boot Understand how to use React for frontend programming Gain knowledge of how to create unit tests using JUnit Discover the techniques that go into securing the backend using Spring Security Learn how to use Material UI in the user interface to make it more user-friendly Create a React app by using the Create React App starter kit made by Facebook Who this book is for Java developers who are familiar with Spring, but have not yet built full-stack applications Assemble the complete stack required to build a modern web app using React: MongoDB (a NoSQL database) and Express (a framework for web application servers), which runs on Node (JavaScript on the server side), complement React very nicely. This book will also cover many

other tools that go into building a complete web application: React Router, React-Bootstrap, Redux, Babel, and webpack. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. But it has its shortcomings such as lack of support for SEO friendly server-side rendering and being too prescriptive by being a framework. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack. What You Will Learn Discover the details of React, the React Way, and how to get the maximum out of this library See the basics of MongoDB, Express, and Node, enough to build a web app Work with other tools complementary to React, including React-Bootstrap and React Router Use the tools required to build JavaScript based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development

to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-

binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular 2, and Node 5.0About This Book* Construct a fully-functional MEAN application by using its components along with the best third-party modules* Harness the power of the JavaScript ecosystem to effectively run, build, and test your MEAN application* Gain a deep, practical understanding of real-time web application development through real-world examplesWho This Book Is ForIf you are a JavaScript developer who is interested in building modern web applications using MongoDB, Express, Angular 2, and Node 5.0, then this book is for you. You only need knowledge of JavaScript development.What You Will Learn* Use MongoDB to store and retrieve your application's data* Connect your Express application to MongoDB and use the Mongoose module* Manage your users' authentication and offer them diverse login options using Passport* Structure and use an Angular 2 application in your MEAN project* Use Socket.io to create real-time communication between your client and server* Test your application's Express and Angular 2 entitiesIn DetailThe

MEAN stack is a collection of the most popular modern tools for web development that helps you build fast, robust, and maintainable web applications.Starting with the MEAN core frameworks, this pragmatic guide will explain the key concepts of each framework, how to set them up properly, and how to use popular modules to connect it all together. By following the real-world examples shown in this tutorial, you will scaffold your MEAN application architecture, add an authentication layer, and develop an MVC structure to support your project development. You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls. Finally, you will walk through the different tools and frameworks that will help expedite your daily development cycles.Watch how your application development grows by learning from the only guide that is solely orientated towards building a full, end-to-end, real-time application using the MEAN stack!
Discover practical recipes to get to grips with Node.js concepts and programming models for delivering a scalable server-side for your applications Key features Implement practical solutions for scaling, securing, and testing your Node.js web apps effectively Build and deploy scalable microservices architecture with the power of Node.js 14 Discover techniques for debugging and testing Node.js applications Book Description A key technology for building web applications and tooling, Node.js brings JavaScript to the server enabling full-stack development in a common language. This fourth edition of the Node Cookbook is updated with the latest Node.js features and the evolution of the Node.js framework ecosystems. This practical guide will help you to get started with creating, debugging, and deploying your Node.js applications and cover solutions to common problems, along with tips to avoid pitfalls. You'll become familiar with the Node.js development model by learning how to handle files and

build simple web applications and then explore established and emerging Node.js web frameworks such as Express.js and Fastify. As you advance, you'll discover techniques for detecting problems in your applications, handling security concerns, and deploying your applications to the cloud. This recipe-based guide will help you to easily navigate through various core topics of server-side web application development with Node.js. By the end of this Node book, you'll be well-versed with core Node.js concepts and have gained the knowledge to start building performant and scalable Node.js applications. What you will learn Understand the Node.js asynchronous programming model Create simple Node.js applications using modules and web frameworks Develop simple web applications using web frameworks such as Fastify and Express Discover tips for testing, optimizing, and securing your web applications Create and deploy Node.js microservices Debug and diagnose issues in your Node.js applications Who this book is for ?The book is for web developers who have knowledge of JavaScript and want to gain a broad understanding of Node.js concepts for server-side development.

Written by the core development team of JHipster and fully updated for JHipster 6, Java 11, and Spring Boot 2.1, this book will show you how to build modern web applications with real-world examples and best practices Key Features Build full stack applications with modern JavaScript frameworks such as Angular, React, and Vue.js Explore the JHipster microservices stack, which includes Spring Cloud, Netflix OSS, and the Elastic Stack Learn advanced local and cloud deployment strategies using Docker and Kubernetes Book Description JHipster is

an open source development platform that allows you to easily create web apps and microservices from scratch without spending time on wiring and integrating different technologies. Updated to include JHipster 6, Java 11, Spring Boot 2.1, Vue.js, and Istio, this second edition of Full Stack Development with JHipster will help you build full stack applications and microservices seamlessly. You'll start by understanding JHipster and its associated tools, along with the essentials of full stack development, before building a monolithic web app. You'll then learn the JHipster Domain Language (JDL) with entity modeling using JDL-Studio. With this book, you'll create production-ready web apps using Spring Boot, Spring Framework, Angular, and Bootstrap, and run tests and set up continuous integration pipelines with Jenkins. As you advance, you'll learn how to convert your monoliths to microservices and how to package your application for production with various deployment options, including Heroku and Google Cloud. You'll also learn about Docker and Kubernetes, along with an introduction to the Istio service mesh. Finally, you'll build your client-side with React and Vue.js and discover JHipster's best practices. By the end of the book, you'll be able to leverage the best tools available to build modern web apps. What you will learn Create full stack apps from scratch using the latest features of JHipster 6 and Spring Boot 2.1 Build business logic by creating and developing entity models

using JDL Understand how to convert a monolithic architecture into a full-fledged microservices architecture Build and package your apps for production using Docker Deploy your application to Google Cloud with Kubernetes Create continuous integration/continuous delivery pipelines with Jenkins Create applications using Angular, React, and Vue.js client-side frameworks Who this book is for This book is for full stack developers who want to build web applications and microservices speedily without writing a lot of boilerplate code. If you're a backend developer looking to learn full stack development with JavaScript frameworks and libraries such as Angular, React, and Vue.js, you'll find this book useful. Experience in building Java web applications is required. Some exposure to the Spring Framework would be beneficial but not necessary to get the most out of this book.

Develop your JavaScript programming skills by learning strategies and techniques commonly used in modern full-stack application development Key Features Write and deploy full-stack applications efficiently with JavaScript Delve into JavaScript's multiple programming paradigms Get up to speed with core concepts such as modularity and functional programming to write efficient code Book Description In depth knowledge of JavaScript makes it easier to learn a variety of other frameworks, including React, Angular, and related tools and

libraries. This book is designed to help you cover the core JavaScript concepts you need to build modern applications. You'll start by learning how to represent an HTML document in the Document Object Model (DOM). Then, you'll combine your knowledge of the DOM and Node.js to create a web scraper for practical situations. As you read through further lessons, you'll create a Node.js-based RESTful API using the Express library for Node.js. You'll also understand how modular designs can be used for better reusability and collaboration with multiple developers on a single project. Later lessons will guide you through building unit tests, which ensure that the core functionality of your program is not affected over time. The book will also demonstrate how constructors, async/await, and events can load your applications quickly and efficiently. Finally, you'll gain useful insights into functional programming concepts such as immutability, pure functions, and higher-order functions. By the end of this book, you'll have the skills you need to tackle any real-world JavaScript development problem using a modern JavaScript approach, both for the client and server sides. What you will learn Apply the core concepts of functional programming Build a Node.js project that uses the Express.js library to host an API Create unit tests for a Node.js project to validate it Use the Cheerio library with Node.js to create a basic web scraper Develop a React interface to build processing flows Use callbacks as a

basic way to bring control back Who this book is for If you want to advance from being a frontend developer to a full-stack developer and learn how Node.js can be used for hosting full-stack applications, this is an ideal book for you. After reading this book, you'll be able to write better JavaScript code and learn about the latest trends in the language. To easily grasp the concepts explained here, you should know the basic syntax of JavaScript and should've worked with popular frontend libraries such as jQuery. You should have also used JavaScript with HTML and CSS but not necessarily Node.js.

Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for

real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

TypeScript is among the fastest-growing languages, helping developers build full-stack apps by integrating with powerful frameworks such as React and Node.js. With this book, you'll get started with TypeScript and build an SPA with React and middleware using Node.js and Express. Finally, you'll be able to package

your web app and deploy it on AWS.

This is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, MongoDB, Backbone.js, Parse.com, Heroku and Windows Azure. Practical examples include building multiple versions of the Chat app:•jQuery + Parse.com JS REST API•Backbone and Parse.com JS SDK•Backbone and Node.js•Backbone and Node.js + MongoDB The Chat application has all the foundation of a typical web/mobile application: fetching data, displaying it, submitting new data. Other examples in the book are as follows:•jQuery + Twitter RESP API "Tweet Analyzer"•Parse.com "Save John"•MongoDB "Print Collections"•Backbone.js "Apple Database"•Monk + Express.js "REST API Server" This book will save you many hours by providing a hand-picked and tested collection of quick start guides. RPJS has practical examples that allow to spend less time learning and more time building your own applications. Prototype fast and ship code that matters! What You will Learn: You should expect a basic understanding from a collection of quick start guides, tutorials and suggestions for the devel0pment apps discussed in this book. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You'll learn from the examples of Chat web/mobile applications

starting with front-end components and by the end we'll put front-end and back-end together and deploy to the production environment. Who This Book is For: The typical programmer who wants to learn more about effective JavaScript coding.

This comprehensive career guide helps readers take a close look at coding as a career path and gives them a long, actionable list for turning their interests into a career across a variety of fields. Whether a student is interested in games, engineering, design, or systems administration, each career path comes with a detailed list of resources and first-person accounts from professionals in the field. This guide is all a coding enthusiast needs to get started planning and building a career, all without having to worry about student loans.

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. We're not talking about any generators or MEAN frameworks here, we're talking about a full understanding of MongoDB, Express, AngularJS and Node.js. Throughout this course we'll show you how to use each of these technologies, and how to use them together. Build Great JavaScript Applications using MongoDB, Express, AngularJS 1.x and Node.js. The overall aim of the course is to enable to you confidently build all different types of application using the MEAN stack. To do this, the course is divided into four sections, each section

focusing on a different goal. The four sections all work together building a full application, with an overall outcome of showing how to architect and build complete MEAN applications."--Resource description page.

Get introduced to full stack enterprise development. Whether you are new to AngularJS and Spring RESTful web services, or you are a seasoned expert, you will be able to build a full-featured web application from scratch using AngularJS and Spring RESTful web services. Full stack web development is in demand because you can explore the best of different tools and frameworks and yet make your apps solid and reliable in design, scalability, robustness, and security. This book assists you in creating your own full stack development environment that includes the powerful and revamped AngularJS, and Spring REST. The architecture of modern applications is covered to prevent the development of isolated desktop and mobile applications. By the time you reach the end of this book you will have built a full-featured dynamic app. You will start your journey by setting up a Spring Boot development environment and creating your RESTful services to perform CRUD operations. Then you will migrate the front-end tools—AngularJS and Bootstrap—into your Spring Boot application to consume RESTful services. You will secure your REST API using Spring Security and consume your secured REST API using AngularJS. What You'll Learn Build a

REST application with Spring Boot Expose CRUD operations using RESTful endpoints Create a single page application by integrating Angular JS and Bootstrap in Spring Boot Secure REST APIs using Spring Security Consume secured RESTful Services using Angular JS Build a REST client using a REST template to consume RESTful services Test RESTful services using the Spring MVC Test Framework Who This Book Is For Web application developers with previous Java programming experience who want to create enterprise-grade, scalable Java apps using powerful front tools such as AngularJS and Bootstrap along with popular back-end frameworks such as Spring Boot

This book is packed with exercises which build up into a full project: you develop a small e-commerce application. You'll allow users to browse for products, add them to their basket, and you'll also create a full back-end where the site administrators will be able to list, create, modify, and delete products. Read this book, and you can code your Meteor application within a week.. I know from experience teaching what takes more time to learn in Meteor, and will spend time only where appropriate.

Learn by doing! Learn full-stack JavaScript development by building a web application with MongoDB, Node.js, and React.js. Learn how to use Node as a web server and an API server, how to consume data and build user interfaces with React, and how to read and write data with a MongoDB database. React allows you to build full-featured, data-

driven applications faster and more efficiently than what is possible with JavaScript alone. Samer Buna introduces modern JavaScript programming concepts, with an emphasis on functional methods and open-source tools. The lessons are almost completely hands-on, with live coding demonstrations that bring the concepts home. Go programming has been rapidly adopted by developers for building web applications. With its ecosystem growing in size and its stable architecture, Go offers a library for building scalable and high-performant web services and apps. Hands-On Full Stack Development with Go is a comprehensive guide that covers all aspects of full-stack ... Unlock the power of the MEAN stack by creating attractive and real-world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application Build optimum end-to-end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to

finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions Enhance your website's usability with social logins such as Facebook, Twitter, and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket.IO Create distributed applications and use the power of server-side rendering in your applications Extend a project with a real-time bidding system using WebSockets In Detail The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally

add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge. Discover how to build full stack web applications with the Raspberry Pi 3 About This Book Leverage JavaScript, HTML5, and Cloud APIs to create visual representations and interactive web pages. Learn to install and use a Node.js-based web framework to develop Raspberry Pi 3-powered web applications. A step-by-step guide that will cover from setting up a embedded system to developing embedded, device-powered interactive web applications. Who This Book Is For This book is aimed at hobbyist, enthusiasts, and developers eager to develop embedded device-powered web applications. Prior programming experience with JavaScript, HTML5, and Node.JS will

be beneficial. What You Will Learn Get up and running with your Raspberry Pi Go full stack! Learn about the end-to-end development process for web applications, right from the OS up to the actual HTML web interface Discover that JavaScript is one of the fastest growing languages today, and is the only language that can be used both on a browser and server. This book will empower you to develop in a complete JavaScript stack See that the IoT is everywhere!Connect your application to the outside world. Make use of sensors in your Raspberry Pi to give your application an edge, and unleash the full power of the Internet of Things Build a rich UI with beautiful charts and data visualizations that can run on any browser Make your software data-driven. Learn how to utilize SQLite to collect and analyze data from multiple systems In Detail Modern web technology and portable computing together have enabled huge advances in the Internet of Things (IoT) space,as well as in areas such as machine learning and big data. The Raspberry Pi is a very popular portable computer for running full stack web applications. This book will empower you to master this rapidly evolving technology to develop complex web applications and interfaces. This book starts by familiarizing you with the various components that make up the web development stack and that will integrate into your Raspberry Pi-powered web applications. It also introduces the Raspberry Pi computer and teach you how to get up and running with a brand new one. Next, this book introduces you to the different kinds of sensor you'll use to make your applications; using these skills, you will be able to create full stack web applications and

make them available to users via a web interface. Later, this book will also teach you how to build interactive web applications using JavaScript and HTML5 for the visual representation of sensor data. Finally, this book will teach you how to use a SQLite database to store and retrieve sensor data from multiple Raspberry Pi computers. By the end of this book you will be able to create complex full stack web applications on the Raspberry Pi 3 and will have improved your application's performance and usability. Style and approach Step-by-step instructions on developing a full stack web application and deploying it to the Cloud.

Enjoy learning the fundamentals of building a Service Layer with Node.js/Express, a Data Layer with MongoDB, and a Presentation Layer with React and React Native. Illustrated with a sample application to learn everything along the way.This book will teach you how to develop JavaScript applications with simple to use, yet powerful JavaScript technologies and host everything in the cloud in an economic and robust way. Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service in AWS and deploy to Google Play.

This book focuses on the popular frontend web framework Vue's latest version, Vue 3.0. You'll explore the Vue ecosystem, discover how you can use it to achieve impressive results in a short space of time, and learn essential Vue 3 concepts by building real-world applications.

Get started with speed building AngularJS applications, and scale up to a full-stack web

application, using the existing AngularJS framework without the trouble of migrating to Angular 2 About This Book Follow the best practices of the framework to organize and modularize your application Get to grips with Angular's Model-View-Controller architecture Create application modules with maximum reusability and extensibility Structure and use AngularJS applications in your MEAN project in your MEAN project Who This Book Is For This course is for people who want to discover how they can improve their current web applications with the existing version of Angular without having to worry much about migrating to AngularJS 2 What You Will Learn Install and set up the AngularJS framework Create your own full-featured and robust AngularJS web apps Create reusable directives and then extend the behavior of HTML on your web page Optimize and maintain your web applications Create more powerful full-stack web applications, that draw on the combined power of AngularJS, Node.js, MongoDB, and Express in the MEAN stack In Detail The AngularJS course is a journey to help you improve and scale your current web applications with the existing version of Angular without having to worry about migration to Angular 2. The course is divided into four modules. The first part—AngularJS Essentials is like a practical guide, filled with many step-by-step examples that will lead you through the best practices of AngularJS. After a brief introduction, you will learn how to create reusable components with directives. You will then take a look at many data handling techniques, discover a complete set of technologies that are capable to accomplish any challenge related to present,

transform, and validate data on the user's interface. Finally, you will discover the best way to deal with the scope and how to break up the application into separate modules, giving rise to reusable and interchangeable libraries. With this you've crossed a milestone and are about to enter the world of learning by example. In the next part—Learning AngularJS By Example, you will learn how to effectively build apps using the AngularJS platform. You will be building multiple apps on this platform ranging from simple ones to more complex ones. In this module, you will roll up your coding sleeves and create a serious AngularJS application by example – a rich featured workout app. Take the coding a step at a time at first, then once you're coding a full app in this module, a lot of AngularJS will fall right into place for you. The third module—AngularJS Web Application Development Cookbook, will get you accustomed to the AngularJS concept armed with a solid understanding of how it works, insight into the best ways to wield it in real-world applications, and annotated code examples. It is a rich library of AngularJS coding solutions that you can use straight away in your own code projects. You are just a step away from completing this learning path of AngularJS. The name of the next part—MEAN Web Development itself assures that you are nearing the destination. The idea is simple with this part, you'll take MongoDB as the database, Express as the web framework, AngularJS as the frontend framework, and Node.js as the platform, and combine them together in a modular approach that will ensure the flexibility needed in modern software development. This is also your graduation to full-

stack web development, which can open many new coding and career opportunities for you! Style and approach Get up to speed building AngularJS applications, then improve and scale full-stack web applications, using the existing AngularJS framework without the trouble of migrating to Angular 2

MeteorJS makes full-stack JavaScript Application Development simple – Learn how to build better modern web apps with MeteorJS, and become an expert in the innovative JavaScript frameworkAbout This Book• Get your dream project up and running by building exceptional MeteorJS applications in a matter of days• Learn how to integrate other JavaScript frameworks into your MeteorJS project and become an expert in full-stack development• Go beyond coding and learn how to make modern design decisions – from mobile design to SEO – that drive great user experiencesWho This Book Is ForIf you've already had some experience with MeteorJS but want to learn how to build even better modern web application, this book has been created for you. It provides you with a comprehensive look at one of those most important frameworks being used for the modern web today.What You Will Learn• Get to grips with the basics and learn how to build a complete real-time application with MeteorJS• Find out how Meteor makes full-stack development simple – become a better developer, fast.• Use some of the most effective testing tools in modern web development to

troubleshoot, debug and optimize your app• Find out how to write custom packages for applications – so you can build your project exactly how you want• Integrate React and Angular into your project• Design and develop high quality animations that will give your UI the edge• Build MeteorJS to serve as REST-based application and reactive system• Learn how to host a MeteorJS application and then scale it for data• Find out how MeteorJS can help you build for mobile• Learn how to make sure you implement an effective SEO strategy in your MeteorJS applicationIn DetailThe web is dead – applications now rule our online experiences. But how are you going to build them? Well, if you've been paying attention, you might already have tried your hand with MeteorJS, the JavaScript framework that helps you build complete full-stack web applications that are responsive and fast with ease.Mastering MeteorJS Application Development shows you how to do even more with MeteorJS – if you're ready to try a comprehensive course through one of the most exciting frameworks in web development today, this is the book you need. Designed to take you through the entire process of building an advanced multipage application with Meteor, you'll be able to bring your web development ideas with surprising ease.You'll not only learn how Meteor makes web development easier, but also how you can make using Meteor easier, by automating and simplifying tasks so you can be confident

you have full control of everything in your workflow – especially everything that could go wrong. From automated testing to integrating other useful frameworks such as Angular and D3, each chapter covers a crucial element in the Meteor development process.Discover how to integrate animations using Meteor's Blaze, to give your UI designs the edge, and explore reactive programming to effectively harness RESTful systems in your projects. You will also learn how to deploy and scale your application, two crucial aspects of modern development and vital in a changing digital environment with users expecting a product and experience that delivers. With further insights on developing for mobile – and how Meteor can help you tackle the challenges of the trend – and details on incorporating SEO strategies into your application, this book isn't just a code tutorial – it's about creating a product that users love.Style and approach This book is a practical guide that teaches you different ways to create custom packages, efficient client and server code, and more using Meteor. This book is packed with perfect examples and explanations to help you understand the concepts. With the perfect mix of theory and practical experience, it will equip you to become a professional MeteorJS developer.

Bring the frontend and backend together with Vue, Vuex, and Node.js Key Features Construct modern web applications with Node 10, Express.js,

MongoDB, and Vue Leverage the latest web standards to increase code performance, readability, and cross-compatibility Harness the power of the JavaScript ecosystem to effectively run, build, and test your full stack applications Book Description Isomorphic JavaScript was the buzzword of the year 2017, allowing developers to utilize a single language throughout their web development stack and build cost-effective and scalable applications. MEVN is a one such modern web development stack consisting of web applications such as MongoDB, Express.js, Vue.js, and Node.js. Hands-On Full-Stack Web Development with Vue.js 2 and Node.js leverages the harmony of these technologies to help you create full-stack web applications. Starting with the core frameworks, this example-based guide explains all the key concepts of frameworks, how to set them up properly, and how to use popular modules to connect them together and make them work cohesively. You will learn all this with the help of real-world examples. In addition to this, you will be able to scaffold web application architecture, add an authentication layer, and develop the MVC structure to support the development of your application. You'll explore how to create data models for your applications and then write REST APIs by exposing your data model to your application. Solely orientated towards building a full, end-to-end application using the MEVN stack, this book will help you

understand how your application development grows. What you will learn Build an application with Express.js Create schemas using Mongoose Develop a single-page application using Vue.js and Express.js Create RESTful APIs using Express.js Add test cases to improve the reliability of the application Learn how to deploy apps on Heroku using GitHub Add authorization using passports Who this book is for If you are a web or a full-stack JavaScript developer, and have tried your hand at traditional stacks such as LAMP, MEAN or MERN, or wish to explore a new stack with modern web technologies, then this book is for you. Prior knowledge of HTML, CSS, and JavaScript would be an added advantage. Explores in detail how to use the combination of MongoDB, Express, AngularJS, and Node.js to create JavaScript Web applications, including building a Node server, interacting with MongoDB using Mongoose, and alternative server frameworks.

Let us full stack development with Spring Boot and React JS. DESCRIPTION Designing Application with Spring Boot 2 & React JS is divided into three parts. The first part introduces you to the essentials of the Spring Boot 2.2 Framework and you will learn how to create REST APIs and how to secure REST APIs. Part 2 steps behind the front end application development with React JS and discuss React features and its advantages toward the front end application development.

Part 3 expands on that by showing how to deploy backend and frontend application the PaaS platform and also will discuss how to deploy application container technologies such as Docker. KEY FEATURES ? This book has a very specific goal to make developing REST applications easier and focusing on common challenges of the design of the application with best practices. ? This book is providing practical code examples from real-world experiences. ? This book is not only about Spring Boot 2.2 and React JS overview but also has an in-depth discussion about adopted REST Architectural pattern and its constraints to create the REST APIs. ? The book can act as a tool for learning Spring Boot 2.2 and React JS for the first time as well as a guide and reference for those wanting to dig deeper into specific features. ? This book is also providing deeper information about the Spring Security and JWT token-based authentication for your REST applications. ? This does not only provide information about to design an application using Spring Boot and React JS but also providing how to deploy your application to the cloud platform (PaaS). ? Containerization using Docker is another key feature of this book, how to create a Docker image and how to run it. WHAT WILL YOU LEARN ? Exploring Spring Boot 2.2 new features and essential key components such as Starters, Autoconfiguration, CLI, Actuator. ? Develop a REST application using Spring Boot 2.2 and DevTools. ? Exploring

Spring Boot Auto Configuration and Customization. ? Creating application profiles based on the environments. ? Learn to configure backend data using JDBC and Spring Data JPA. ? Learn to configure a DataSource for H2 DB, and also for Maria DB. ? Learn best practices for designing a REST architecture based application. ? Creating a REST application using HATEOAS. ? Consuming REST APIs endpoints with RestTemplate, Traverson, and WebClient. ? Exploring JWT web token for the RESTful APIs and explores how to secure REST APIs using OAuth2 and Spring security. ? Creating TESTING module of the Spring Boot application and Unit & Integration testing. ? Discuss React JS and its components and also discuss React KS features and its advantages and disadvantage. ? Exploring how to create ReactJS components and how to manage ReactJS component lifecycle. ? Taking a quick overview of consuming the REST API using the React application. ? Deploying the application to the Cloud platform (PaaS). ? Containerization and Deploy using Docker containers WHO THIS BOOK IS FOR Designing Application with Spring Boot 2.2 & React JS is for all Java developers who want to learn Spring Boot 2.2 and React JS as in the enterprise application. Therefore, enterprise Java developers will find it particularly useful in the understanding of Spring Boot 2.2 and React JS and how to develop a backend RESTful application using the Spring Boot 2.2 and frontend

application using React JS framework. They will most fully appreciate the examples presented in this book. Before reading this book, readers should have basic knowledge of core java, spring, servlet, filter, XML, and JavaScript. TABLE OF CONTENTS Getting Started with Spring Boot 2.2 Customizing Auto-Configuration Configuring Data and CRUD operations Creating REST APIs with Spring Boot 2.2 Securing REST APIs Testing Spring Boot Application Getting Started with React Creating and Styling React Components Consuming the REST API with React JS Deploying and Containerizing Application

This book is written for absolute beginners who want to become full stack web application developer. To become a professional full stack web developer you have to put on many hats. HTML5, CSS3, Bootstrap, JavaScript, MySQL, and PHP are the core technologies that you must be acquainted with to develop moderate data-driven web applications. All these technologies are voluminous and you need ample time to learn each one of them. In this fast changing technological world no one has time to go through bulky books of these core technologies. With so many web technologies out there in the market, novices are confused and do not have enough time to evaluate these technologies to decide what to pick for their career and where to start from. Keeping aside the least utilized features, I've written this book to focus on the more operational

areas of these technologies that act as the first stepping stone and will provide you with a solid jump start into the exciting world of web development. This book is meant to help you learn web development quickly by yourself. It follows a tutorial approach in which hands-on exercises, augmented with illustrations, are provided to teach you web application development in a short period of time. Once you get grips on these core web development technologies through this book, you will be able to easily set the destination for your future. With uncountable sites and freely available material, this book is written due to the following reasons: Assemble all scattered pieces in one place. This volume contains HTML5, CSS3, JavaScript, Bootstrap, PHP and MySQL. Sequential instructions are provided to download and install the required software and components to setup a complete development environment on your own pc. Focus on inspiring practical aspect of these web technologies. Last but not least, move novices gradually right from creating an HTML file with a text editor, through learning HTML, CSS, JavaScript, Bootstrap, MySQL and PHP all the way to creating and deploying a professional e-commerce website that comprises static and dynamic pages. From web introduction to hands-on examples and from website designing to its deployment, this book surely is a complete resource for those who know little or nothing about professional web development.

"Learn all of the different aspects of full stack JavaScript development using the MEAN stack. In this primer course we will be introducing each section of the stack and in 16 videos we show you how to build an application using the latest and greatest technologies out there at the moment. Throughout this course we'll show you how to use each of these technologies, and how to use them together.Build great JavaScript applications using MongoDB, Express, Angular2+, TypeScript and Node.js. The overall aim of the course is to enable you to confidently build all different types of application using the MEAN stack."--Resource description page.

Combining React, one of the most widely used JavaScript frameworks, and GraphQL, the modern way of querying an API, two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL.

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