

Model Number Mongoose

JavaScript Frameworks for Modern Web Dev is your guide to the wild, vast, and untamed frontier that is JavaScript development. The JavaScript tooling landscape has grown and matured drastically in the past several years. This book will serve as an introduction to both new and well established libraries, frameworks, and utilities that have gained popular traction and support from seasoned developers. It covers tools applicable to the entire development stack, both client- and server-side. While no single book can possibly cover every JavaScript library of value, JavaScript Frameworks for Modern Web Dev focuses on incredibly useful libraries and frameworks that production software uses. You will be treated to detailed analyses and sample code for tools that manage dependencies, structure code in a modular fashion, automate repetitive build tasks, create specialized servers, structure client side applications, facilitate horizontal scaling, and interacting with disparate data stores. The libraries and frameworks covered include Bower, Grunt, Yeoman, PM2, RequireJS, Browserify, Knockout, AngularJS, Kraken, Mach, Mongoose, Knex, Bookshelf, Faye, Q, Async.js, Underscore, and Lodash. Written from first-hand experience, you will benefit from the glorious victories and innumerable failures of two experienced professionals, gain quick insight into hurdles that aren't always explicitly mentioned in API documentation or Readmes, and quickly learn how to use JavaScript frameworks and libraries like a Pro. Enrich your development skills with JavaScript Frameworks for Modern Web Dev today.

Traditionally, web applications have been architected so that the back-end houses all the front-end code. This has resulted in heavy projects that are difficult to manage and scale. This book will explain a new way to write web applications by treating the front-end as if it were a third-party (such as a mobile client). This book, written by a practicing MEAN developer, will take a holistic approach to using the MEAN JavaScript platform for creating modern web applications and lay out how to use the MEAN (Mongo, Express, AngularJS, and Node.js) set of tools to create a web application, from installation and setup of the tools to debugging and deploying your app. After an introduction to how web development is changing and the advantages of using the MEAN stack, the author jumps into an introduction to each tool and then dives into using the complete JavaScript-based application stack to build, test, and deploy apps.

Learn best practices for building bots by focusing on the technological implementation and UX in this practical book. You will cover key topics such as setting up a development environment for creating chatbots for multiple channels (Facebook Messenger, Skype, and KiK); building a chatbot (design to implementation); integrating to IFTT (If This Then That) and IoT (Internet of Things); carrying out analytics and metrics for chatbots; and most importantly monetizing models and business sense for chatbots. Build Better Chatbots is easy to follow with code snippets provided in the book and complete code open sourced and available to download. With Facebook opening up its Messenger platform for developers, followed by Microsoft opening up Skype for development, a new channel has emerged for brands to acquire, engage, and service customers on chat with chatbots. What You Will Learn Work with the bot development life cycle Master bot UX design Integrate into the bot ecosystem Maximize the business and monetization potential for bots Who This Book Is For Developers, programmers, and hobbyists who have basic programming knowledge. The book can be used by existing chatbot developers to gain a better understanding of analytics and the business side of bots.

Over 40 recipes to help you create real-time JavaScript applications using the robust Socket.IO framework About This Book Create secure WebSocket connections and real-time mobile applications using Socket.IO Devise efficient messaging systems between the server side and the client side A step-by-step implementation guide to help you create elements of Socket.IO application Who This Book Is For If you have some knowledge of JavaScript and Node.js and want to create awe-inspiring application experiences using real time communication, then this book is for you. Developers with knowledge of other scripting languages should also be able to easily follow along. What You Will Learn Build rich and interactive real-time dashboards using Socket.IO to pipe in data as it becomes available Design chat and multiple-person interfaces that leverage Socket.IO for communication Segment conversations to rooms and namespaces so that every socket doesn't have to receive every message Secure your data by implementing various authentication techniques, locking down the HTTP referrer and using secure WebSockets Load balance across multiple server-side nodes and keep your WebSockets in sync using Redis, RabbitMQ or Memcached Stream binary data such as audio and video in real-time over a Socket.IO connection Create real-time experiences outside of the browser by integrating Socket.IO with hybrid mobile applications In Detail Socket.IO is a JavaScript library that provides you with the ability to implement real-time analytics, binary streaming, instant messaging, and document collaboration. It has two parts: a client-side library that runs in the browser, and a server-side library for node.js. Socket.IO is event-driven and primarily uses the WebSocket protocol that allows us to emit data bi-directionally from the server and the client. Socket.IO This book is a complete resource, covering topics from WebSocket security to scaling the server-side of a Socket.IO application and everything in between. This book will provide real-world examples of how secure bi-directional, full-duplex connections that can be created using Socket.IO for different environments. It will also explain how the connection vulnerabilities can be resolved for large numbers of users and huge amounts of data/messages. By the end of the book, you will be a competent Socket.IO developer. With the help of the examples and real-world solutions, you will learn to create fast, scalable, and dynamic real-time apps by creating efficient messaging systems between the server side and the client side using Socket.IO. Style and approach This book is written in a cookbook-style format and provides practical, immediately usable task-based recipes that show you how to create the elements of a Socket.IO application.

Web Development with Node and Express

Socket.IO Cookbook

Node.js 6.x Blueprints

The Emergence of Identity in Early Indian Religion

Pushing the Limits

JavaScript Frameworks for Modern Web Development

Learn how to develop a complete and robust Node, express.js and MongoDB-based web application and mobile application backend quickly using KeystoneJS. You'll learn how KeystoneJS makes complicated things simple, without limiting the power or flexibility of node.js or the frameworks it is built on. Beginning KeystoneJS shows you how to build database-driven websites, applications, and APIs, all built upon Express, the defacto web server for Node.js that uses MongoDB as its storage backend. What You Will Learn Discover the setup and architecture of the KeystoneJS framework. See how easy it is to extend KeystoneJS Understand the custom types and fields provided out of the box Write clean markup and create templates using Swig Use the powerful editing options in the framework's responsive dashboard Who This Book Is For Technical and non-technical people who would like to build applications quickly to leverage structured data to improve productivity.

Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular, and Node About 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 examples Who This Book Is For If 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 entities In Detail The 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! Style and approach This comprehensive guide covers every part of the MEAN stack, and focuses on the gestalt power of the apps they can create through practical, real-world examples

This book is a mini tutorial full of code examples and strategies to give you plenty of options when building your own applications with MongoDB. This book is ideal for people who want to develop applications on the Node.js stack quickly and efficiently. Prior knowledge of the stack is not essential as the book briefly covers the installation of the core components and builds all aspects of the example application.

The focus of the book is on what Mongoose adds to you applications, so experienced Node.js developers will also benefit.

Offers background information, descriptions, and values for banks, classic tin toys, action figures, games, Western toys, model kits, and other types of toys.

Mastering Web Application Development with Express

JavaScript Everywhere

Web Application Development with MEAN

Best Practices

Web Development with MongoDB and NodeJS

Build light weight, scalable, and faster web applications with the power of JSON, 2nd Edition

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 Mongoose and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, 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 Mongoose and 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.

Beginning Node.js is your step-by-step guide to learning all the aspects of creating maintainable Node.js applications. You will see how Node.js is focused on creating high-performing, highly-scalable websites, and how easy it is to get started. Many front-end devs regularly work with HTML, CSS, PHP, even WordPress, but haven't yet got started with Node.js. This book explains everything for you from a beginner level, enabling you to start using Node.js in your projects right away. Using this book you will learn important Node.js concepts for server-side programming. You will begin with an easy-to-follow pure JavaScript primer, which you can skip if you're confident of your JS skills. You'll then delve into Node.js concepts such as streams and events, and the technology involved in building full-stack Node.js applications. You'll also learn how to test your Node.js code, and deploy your Node.js applications on the internet. Node.js is a great and simple platform to work with. It is lightweight, easy to deploy and manage. You will see how using Node.js can be a fun and rewarding experience - start today with *Beginning Node.js*.

With Pro iOS and Android Apps for Business, you can take your web development experience and apply it toward creating a full-featured business app, from soup to nuts. Frank Zammetti shows you how to create a client app using jQuery Mobile wrapped in PhoneGap, and how to create a node.js-based server that uses MongoDB as its data store. You never have to deal with learning Objective-C, Java or any other difficult-to-learn language. Instead, you can build on your existing HTML5, JavaScript and CSS experience to quickly and effectively build any app your business needs. You can apply this knowledge to iOS and Android apps as well as other mobile platforms since the technologies used support most modern mobile platforms as well. You'll learn: How to design a full-featured app, including requirements like offline access How to build the client-side of the app using jQuery Mobile, including adding stub code for calling the node.js server How to create a simple server with node.js and interact with it using REST How to use MongoDB with node.js for data storage How to use PhoneGap to ready your app for mobile deployment How to test and debug your app on iOS and Android *Pro iOS and Android Apps for Business* is for experienced web developers who need to get up to speed quickly in building iOS and Android apps for business. Are you ready to join the mobile revolution using the same technologies you already use to build great web applications? If so, this is the book for you! What you'll learn How to design a full-featured app, including requirements like offline access How to build the client-side of the app using jQuery Mobile, including adding stub code for calling the node.js server How to create a simple server with node.js and interact with it using REST How to use MongoDB with node.js for data storage How to use PhoneGap to ready your app for mobile deployment How to test and debug your app on iOS and Android Who this book is for Experienced web devs who need to get up to speed quickly in building iOS and Android apps for business. HTML/CSS/JavaScript experience highly recommended. Table of Contents Part I: The Client Chapter 1 – Designing My Mobile Organizer Chapter 2 - Introducing jQuery and jQuery Mobile Chapter 3 - Writing the Application with jQuery Mobile, Part I Chapter 4 - Writing the Application with jQuery Mobile, Part II Part II: The Server Chapter 5 - Introducing node.js Chapter 6 - Introducing MongoDB Chapter 7 - Writing the Server with node.js and MongoDB, Part I Chapter 8 - Writing the Server with node.js and MongoDB, Part II Part III: Putting It All Together Chapter 9 - Introducing Phonegap Chapter 10 - The Final Build: Going Mobile With Phonegap

There are varying ways one can pursue starting a new or converting an existing project to a Serverless architecture. One of the many arguments heard is that developers typically don't know where to begin. This book is intended for those seeking to leverage the Serverless Framework with a project written in Node.js. Expanding on the AWS Serverless App tutorial series, this book provides a step-by-step guide for building Node.js Serverless projects on AWS. It aims to solve one of the more predominant causes of delaying the transition to Serverless by providing engineers with an outline of where to begin on their Serverless journey. Example projects are provided to demonstrate several avenues that can be taken as well as some housekeeping items like formatting and building the continuous integration and delivery pipeline. Readers also get end-of-chapter quizzes, cheat sheets, and access to the full source code from the examples in this book.

Beginning Node.js

JavaScript Programming

Leveraging the JavaScript Stack

JavaScript Frameworks for Modern Web Dev

A Complete Guide to Getting Started with Chatbots

Pro iOS and Android Apps for Business

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 its 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.

Learn to build fast and scalable software in JavaScript with Node.js Node.js is a powerful and popular new framework for writing scalable network programs using JavaScript. This no nonsense book begins with an overview of Node.js and then quickly dives into the code, core concepts, and APIs. In-depth coverage pares down the essentials to cover debugging, unit testing, and flow control so that you can start building and testing your own modules right away. Covers node and asynchronous programming main concepts Addresses the basics: modules, buffers, events, and timers Explores streams, file systems, networking, and automated unit testing Goes beyond the basics, and shares techniques and tools for debugging, unit testing, and flow control If you already know JavaScript and are curious about the power of Node.js, then this is the ideal book for you.

Developers, designers, engineers, and creators can no longer afford to pass responsibility for identity and data security onto others. Web developers who don't understand how to obscure data in transmission, for instance, can open security flaws on a site without realizing it. With this practical guide, you'll learn how and why everyone working on a system needs to ensure that users and data are protected. Authors Jonathan LeBlanc and Tim Messerschmidt provide a deep dive into the concepts, technology, and programming methodologies necessary to build a secure interface for data and identity—without compromising usability. You'll learn how to plug holes in existing systems, protect against viable attack vectors, and work in environments that sometimes are naturally insecure. Understand the state of web and application security today Design security password encryption, and combat password attack vectors Create digital fingerprints to identify users through browser, device, and paired device detection Build secure data transmission systems through OAuth and OpenID Connect Use alternate methods of identification for a second factor of authentication Harden your web applications against attack Create a secure data transmission system using SSL/TLS, and synchronous and asynchronous cryptography

In just 24 sessions of one hour or less, Sams Teach Yourself Node.js in 24 Hours will help you master the Node.js platform and use it to build server-side applications with extraordinary speed and scalability. Using this text's straightforward, step-by-step approach, you'll move from basic installation, configuration, and programming all the way through real-time messaging between browser and server, testing and deployment. Every lesson and case-study application builds on what you've already learned, giving you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common Node.js development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present valuable additional information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Learn how to... · Create end-to-end applications entirely in JavaScript · Master essential Node.js concepts like callbacks and quickly create your first program · Create basic sites with the HTTP module and Express web framework · Manage data persistence with Node.js and MongoDB · Debug and test Node.js applications · Deploy Node.js applications to thirdparty services, such as Heroku and Nodester · Build powerful real-time solutions, from chat servers to Twitter clients · Create JSON APIs using JavaScript on the server · Use core components of the Node.js API, including processes, child processes, events, buffers, and streams · Create and publish a Node.js module

Building Serverless Node.js Apps on AWS

MEAN Web Development

Learning Single-page Web Application Development

With JQuery Mobile, Node.js, and MongoDB

A Problem-Solution Approach

Build Better Chatbots

Enrich your software design skills and take a guided tour of the wild, vast, and untamed frontier that is JavaScript development. Especially useful for frontend developers, this revision includes specific chapters on React and VueJS, as well as an updated one on Angular. To help you get the most of your new skills, each chapter also has a "further reading" section. This book will serve as an introduction to both new and well established libraries and frameworks, such as Angular, VueJS, React, Grunt, Yeoman, RequireJS, Browserify, Knockout, Kraken, Async.js, Underscore, and Lodash. It also covers utilities that have gained popular traction and support from seasoned developers and tools applicable to the entire development stack, both client- and server-side. While no single book can possibly cover every JavaScript library of value, JavaScript Frameworks for Modern Web Development focuses on incredibly useful libraries and frameworks that production software uses. You will be treated to detailed analyses and sample code for tools that manage dependencies, structure code in a modular fashion, automate repetitive build tasks, create specialized servers, structure client side applications, facilitate horizontal scaling, and interacting with disparate data stores. What You'll Learn Work with a variety of JavaScript frameworks, such as Angular, Vue, React, RequireJS, Knockout, and more Choose the right framework for different types of projects Employ the appropriate libraries and tools in your projects Discover useful JavaScript development tools such as Grunt, Yeoman, Lodash, etc. Who This Book Is For Web developers of all levels of ability; particularly relevant for front-end developers, server-side coders, and developers interested in learning JavaScript.

This book is aimed at web developers who are familiar with frontend technologies like JavaScript, HTML, and CSS, and modern tools like Bower, Yeoman, and Grunt.

Studies of sexual selection, interspecific mutualism, and intraspecific cooperation show that individuals exchange commodities to their mutual benefit. The exchange values of

commodities are a source of conflict, and behavioral mechanisms such as partner choice and contest between competitors determines the composition of trading pairs or groups. These "biological markets" can be examined to gain a better understanding of the underlying principles of evolutionary ecology. In this volume scientists from different disciplines combine insights from economics, evolutionary biology, and the social sciences to look at comparative aspects of economic behavior in humans and other animals. Since the beginning of modern Indology in the 19th century, the relationship between the early Indian religions of Buddhism, Jainism, and Hinduism has been predicated on a perceived dichotomy between two meta-historical identities: "the Brahmins" (purveyors of the ancient Vedic texts and associated ritual system) and the newer "non-Brahmanical" sramana movements from which the Buddhists and Jains emerged. Textbook and scholarly accounts postulate an opposition between these two groups, citing the 2nd-century BCE Sanskrit grammarian Patañjali, who is often quoted erroneously as likening them to the proverbial enemies snake and mongoose. Scholars continue to privilege Brahmanical Hindu accounts of early Indian history, and further portray Buddhist and Jain deviations from those accounts as evidence of their opposition to a pre-existing Brahmanism. In *The Snake and The Mongoose*, Nathan McGovern turns this commonly-accepted model of the origins of the early Indian religions on its head. His book seeks to de-center the Hindu Brahman from our understanding of Indian religion by "taming the snake and the mongoose"--that is, by abandoning the anachronistic distinction between "Brahmanical" and "non-Brahmanical." Instead, McGovern allows the earliest articulations of identity in Indian religion to speak for themselves through a comparative reading of texts preserved by the three major groups that emerged from the social, political, cultural, and religious foment of the late first millennium BCE: the Buddhists and Jains as they represented themselves in their earliest sutras, and the Vedic Brahmins as they represented themselves in their Dharma Sutras. The picture that emerges is not of a fundamental dichotomy between Brahmanical and non-Brahmanical, but rather of many different groups who all saw themselves as Brahmanical. Thus, McGovern argues, it was through the contestation between these groups that the distinction between Brahmanical and non-Brahmanical--the snake and the mongoose--emerged.

Introduction to MERN Web Apps and JavaScript Algorithms

A Brief Guide on Where to Start

Building Javascript Based Scalable Software

Identity and Data Security for Web Development

Server Side development with Node.js and Koa.js Quick Start Guide

Use CoffeeScript to Write Better JavaScript Code Than Ever Before! If you can do it in JavaScript, you can do it better in CoffeeScript. And, since CoffeeScript "compiles down" to JavaScript, your code will fit neatly into virtually any web environment. In Programming in CoffeeScript, Mark Bates shows web developers why CoffeeScript is so useful and how it avoids the problems that often make JavaScript code buggy and unmanageable. He guides you through every feature and technique you need to write quality CoffeeScript code and shows how to take advantage of CoffeeScript's increasingly robust toolset. Bates begins with the absolute basics of running and compiling CoffeeScript and then introduces syntax, control structures, functions, collections, and classes. Through same page code comparisons, you'll discover exactly how CoffeeScript improves on JavaScript. Next, you'll put it to work in building applications that are powerful, flexible, maintainable, concise, reliable, and secure. Bates shares valuable tips for better development, illuminating CoffeeScript's hidden gems and warning you about its remaining "rough edges." The book concludes with a start-to-finish application case study showing how to code back-ends and front-ends and integrate powerful frameworks and libraries. Coverage includes Understanding the right ways to compile and execute CoffeeScript Using CoffeeScript's clean syntax to focus on your code, not JavaScript's distractions Working with CoffeeScript's control structures, functions, and arguments Taking full advantage of CoffeeScript's implementation of collections and iterators Leveraging CoffeeScript's full class support to create complex data models Automating common application development tasks with Cake and Cakefiles Configuring Jasmine with CoffeeScript support, and using it to systematically test your code Writing Node.js server-side applications in CoffeeScript Using CoffeeScript to write jQuery and Backbone.js applications Integrating framework code to avoid "reinventing the wheel" Want a better way to create the JavaScript code your web applications need? CoffeeScript is the solution--and this book will help you master it!

Take your web development skills from browser to server with Node—and learn how to write fast, highly scalable network applications on this JavaScript-based platform. With this hands-on guide, you'll quickly master Node's core fundamentals, gain experience with several built-in and contributed modules, and learn the differences and parallels between client- and server-side programming. Get up to speed on Node's event-driven, asynchronous I/O model for developing data-intensive applications that are frequently accessed but computationally simple. If you're comfortable working with JavaScript, this book provides numerous programming and deployment examples to help you take advantage of server-side development with Node. Explore Node's unique approach to asynchronous development Build sample Node applications with the Express framework and Connect middleware Use NoSQL solutions such as Redis and MongoDB—and explore Node's relational database modules Work with PDF files, serve HTML5 media, and create graphics with Canvas Set up bidirectional communication between browser and server with WebSockets Learn in-depth practices for debugging and testing your applications Deploy Node applications in the cloud or on your own system "Learning Node will make it easy for someone from any programming background to get a grip on Node.js and build amazing projects." —Tom Hughes-Croucher, co-author of Node: Up and Running (O'Reilly)

JavaScript is the little scripting language that could. Once used chiefly to add interactivity to web browser windows, JavaScript is now a primary building block of powerful and robust applications. In this practical book, new and experienced JavaScript developers will learn how to use this language to create APIs as well as web, mobile, and desktop applications. Author and engineering leader Adam D. Scott covers technologies such as Node.js, GraphQL, React, React Native, and Electron. Ideal

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, 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 is 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 build real-time e-commerce applications. 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: 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 moving on to building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge.

The Snake and the Mongoose

Sams Teach Yourself Node.js in 24 Hours

Mongo, Express, AngularJS, and Node.js

Building Real-World Scalable Web Apps

Getting MEAN with Mongo, Express, Angular, and Node

Mastering RethinkDB

Create stunning web applications and Restful APIs from start to finish with Express, Loopback, MongoDB, and MySQL using this definitive guide

About This Book Create stunning applications with Node.js from scratch, no matter the goal Discover a wide variety of applications you can effectively integrate third-party libraries and other front-end frameworks with Node.js Leverage all the new features introduced in Node.js 6.X Who This Book Is For This book caters to developers who are looking to build projects right from a simple website to more complex one such as a blog, chat application, a photography site, and a lot more. A Basic knowledge of JavaScript and Node.js would be extremely beneficial. What You Will Learn Explore MVC design pattern in Node.js Build solid architectures by following test-driven development Look beyond web applications and create your own desktop app with Node.js Develop single page applications using Node.js with the RESTful APIs, MongoDB, and ORM Master the Express framework and build a complete application with a real database Create a real-time and fully functional online chat application with Socket.IO In Detail Node.js is the most popular framework to create server-side applications today. Be it web, desktop, or mobile, Node.js comes to your rescue to create stunning real-time applications. Node.js 6.x Blueprints will teach you to build these types of projects in an easy-to-understand manner. The key to any Node.js project is a strong foundation on the concepts that will be a part of every project. The book will first teach you the MVC design pattern while developing a Twitter-like application using Express.js. In the next chapters, you will learn to create a website and applications such as streaming, photography, and a store locator using MongoDB, MySQL, and Firebase. Once you're warmed up, we'll move on to more complex projects such as a consumer feedback app, a real-time chat app, and a blog using Node.js with frameworks such as loopback.io and socket.io. Finally, we'll explore front-end build processes, Docker, and continuous delivery. By the end of book, you will be comfortable working with Node.js applications and will know the best tools and frameworks to build highly scalable desktop and cloud applications. Style and approach This is an easy-to-follow guide full of practical examples. This book takes a project-based approach and each chapter contains step-by-step instructions to create stunning applications across different application domains from scratch.

Build real-world robust web applications and APIs using the modern and expressive Koa Node.js framework. Key Features Get up and running with Koa.js and leverage its power with node.js Get the most out of Koa Async functions and generators Create real time dynamic serverside apps efficiently with Koa.js Book Description Every developer wants to build modular and scalable web applications. Modern versions of JavaScript have made this possible in Node.js, and Koa is a Node.js framework that makes it easy. This book is the ideal introduction for JavaScript developers who want to create scalable server side applications using Node.js and Koa.js. The book shows you how Koa can be used to start projects from scratch, register custom and existing middleware, read requests, and send responses to users. We will explore the core concepts in Koa, such as error handling, logging, and request and response handling. We will dive into new concepts in JavaScript development, and see how paradigms such as async/await help with modern Node.js application development. By the end of this book, you will be building robust web applications in Koa using modern development paradigms and techniques of Node.js development. What you will learn Create a simple server in Node.js and Koa Work with custom middleware in Koa Handle errors in Koa Create routes, handle requests, and send responses from APIs Build views and use templates in Koa Authenticate your application and structure it properly in Koa Who this book is for This book is for serverside developers and JavaScript developers who want to use Koa.js and Node.js to create fast and real time back end applications.

Node.js Recipes is your one-stop reference for solving Node.js problems. Filled with useful recipes that follow a problem/solution format, you can look up recipes for many situations that you may come across in your day-to-day server-side development. Node.js is accessible to those who not only relish in server-side programming but also web developers who understand the ubiquitous language of the web. Node.js Recipes covers all the

essential ingredients required to become a seasoned Node.js developer in no time - make it your indispensable reference today. What you'll learn
Learn Node.js's beginnings and what problems it addresses Build an understanding of Node.js's native capabilities Create servers that communicate via TCP/IP, HTTP, and HTTPS Understand and implement test-driven development practices Successfully work with FileSystem, events, and child processes Create a WebSocket server, use Socket.io, and frameworks such as ExpressJS and Yahoo! Mojito Connect to a DataStore using Mongoose, MongoDB, MySQL and CouchDB Implement security and cryptography using HMAC and TLS Test synchronous and asynchronous code, and build a full test suite Debug and deploy your application to Heroku, Nodejitsu and Windows Azure Use Amazon Web Services to successfully host your Node.js application Who this book is for Node.js Recipes is for the reader who has some familiarity with JavaScript. They may have experience writing server-side JavaScript, but would like to get a more sound understanding of the capabilities that Node.js holds. This book will give them recipes enabling them to hone their JavaScript skills in a way that will harness Node.js and help them wrangle JavaScript on the server. Table of Contents
Understanding Node.js Networking with Node.js Working with the FileSystem Building a Web Server Using Events and Child Processes Implementing Security and Cryptography Discovering Other Node.js Modules Creating a WebSocket Server Using Web Server Frameworks Connecting to a DataStore Testing in Node.js Debugging and Deploying your Application
Introduction to MERN Web Apps and JavaScript Algorithms is an introduction to the development of MERN applications. It includes examples of React, Node, Express, MongoDB web apps and explains how to convert a MERN app to a PWA. The eBook also includes an introduction to Javascript Algorithms that range in complexity from string reversal to dynamic programming.
The Essential Frameworks, Libraries, and Tools to Learn Right Now
Programming in CoffeeScript
JavaScript and JSON Essentials
Pro REST API Development with Node.js
2004 Toys and Prices
Scalable Server-Side Code with JavaScript

"Node: Up and Running" shows users how Node scales up to support large numbers of simultaneous connections across multiple servers, and scales down to create one-off applications with minimal infrastructure.

Take your JavaScript knowledge as far as it can go JavaScript has grown up, and it's a hot topic. Newer and faster JavaScript VMs and frameworks built upon them have increased the popularity of JavaScript for server-side web applications, and richJS applications are being developed for mobile devices. This book delivers a compelling tutorial, showing you how to build a real-world app from the ground up. Experienced developers who want to master the latest techniques and redefine their skills will find this deep dive into JavaScript's hidden functionalities gives them the tools to create truly amazing and complex applications. JavaScript has evolved into much more than simple client-side scripting; this book delves into advanced topics not generally found in other more intermediate JS development books Expert author delivers an in-depth tutorial showing how to build a real-world app that is loosely coupled, with each component built to exist separately Explores how to build a backbone app, the importance of JavaScript templates, Node.js and MongoDB, 3D Canvas using WebGL /Three.js, how to convert a desktop app into a dedicated mobile app, and much more Ideal for experienced developers with a deep knowledge of JavaScript as well as online developers with strong graphic design skills who are experienced in HTML/CSS and want to develop their front-end skills JavaScript Programming: Pushing the Limits will arm you with the skills to create killer apps for the 21st Century.

Problem solving with JavaScript is a lot trickier now that its use has expanded considerably in size, scope, and complexity. This cookbook has your back, with recipes for common tasks across the JavaScript world, whether you're working in the browser, the server, or a mobile environment. Each recipe includes reusable code and practical advice for tackling JavaScript objects, Node, Ajax, JSON, data persistence, graphical and media applications, complex frameworks, modular JavaScript, APIs, and many related technologies. Aimed at people who have some experience with JavaScript, the first part covers traditional uses of JavaScript, along with new ideas and improved functionality. The second part dives into the server, mobile development, and a plethora of leading-edge tools. You'll save time—and learn more about JavaScript in the process. Topics include: Classic JavaScript: Arrays, functions, and the JavaScript Object Accessing the user interface Testing and accessibility Creating and using JavaScript libraries Client-server communication with Ajax Rich, interactive web effects JavaScript, All Blown Up: New ECMAScript standard objects Using Node on the server Modularizing and managing JavaScript Complex JavaScript frameworks Advanced client-server communications Visualizations and client-server graphics Mobile application development Use JSON for building web applications with technologies like HTML, JavaScript, Angular, Node.js, Hapi.js, Kafka, socket.io, MongoDB, Gulp.js, and handlebar.js, and others formats like GEOJSON, JSON-LD, MessagePack, and BSON. Key Features Use JSON with trending technologies

like Angular, Hapi.js, MongoDB, Kafka, and Socket.io Debug, validate, and format JSON using developer toolkits, JSONLint, and JSON Editor Online Explore other JSON formats like GeoJSON, JSON-LD, BSON, and MessagePack Book Description JSON is an established and standard format used to exchange data. This book shows how JSON plays different roles in full web development through examples. By the end of this book, you'll have a new perspective on providing solutions for your applications and handling their complexities. After establishing a strong basic foundation with JSON, you'll learn to build frontend apps by creating a carousel. Next, you'll learn to implement JSON with Angular 5, Node.js, template embedding, and composer.json in PHP. This book will also help you implement Hapi.js (known for its JSON-configurable architecture) for server-side scripting. You'll learn to implement JSON for real-time apps using Kafka, as well as how to implement JSON for a task runner, and for MongoDB BSON storage. The book ends with some case studies on JSON formats to help you sharpen your creativity by exploring futuristic JSON implementations. By the end of the book, you'll be up and running with all the essential features of JSON and JavaScript and able to build fast, scalable, and efficient web applications. What you will learn Use JSON to store metadata for dependency managers, package managers, configuration managers, and metadata stores Handle asynchronous behavior in applications using callbacks, promises, generators, and async-await functions Use JSON for Angular 5, Node.js, Gulp.js, and Hapi.js Implement JSON as BSON in MongoDB Make use of JSON in developing automation scripts Implement JSON for realtime using socket.io and distributed systems using Kafka Who this book is for If you're a web developer with a basic understanding of JavaScript and want to write JSON data, integrate it with RESTful APIs to create faster and scalable applications, this book is for you.

Pro Node.js for Developers

Building Cross-Platform Applications with GraphQL, React, React Native, and Electron

Professional Node.js

Write Modern Web Apps with the MEAN Stack

JavaScript Cookbook

Build robust and scalable web applications with modern JavaScript techniques

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

Since its creation in 2009, Node.js has grown into a powerful and increasingly popular asynchronous-development framework for creating highly-scalable network applications using JavaScript. Respected companies such as Dow Jones and LinkedIn are among the many organizations to have seen Node's potential and adopted it into their businesses. Pro Node.js for Developers provides a comprehensive guide to this exciting new technology. We introduce you to Node - what it is, why it matters and how to set it up - before diving deeply into the key concepts and APIs that underpin its operation. Building upon your existing JavaScript skills you'll be shown how to use Node.js to build both Web- and Network-based applications, to deal with data sources, capture events and deal with child processes to create robust applications that will work well in a wide range of circumstances. Once you've mastered these skills we'll go further, teaching you more advanced software engineering skills that will give your code a professional edge. You'll learn how to create easily reusable modules that will save you time through code reuse, to log and debug your applications quickly and effectively and to write code that will scale easily and reliably as the demand for your application grows.

Testing Node.js Applications is a companion to writing quality code. It is suitable to have to those tasked to modernize aging node.js stacks, those willing to improve code quality, and those wanting to test without sacrificing time to market. The best practice described in here, are backed by 10+ years experience developing and delivering data driven applications, sometimes, deployed at scale.

Summary Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages mid-application can radically slow down a full-stack web project. The MEAN stack—MongoDB, Express, Angular, and Node—uses JavaScript end to end, maximizing developer productivity and minimizing context switching. And you'll love the results! MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications! What's inside MongoDB 4, Express 4, Angular 7, and Node.js 11 MEAN stack architecture Mobile-ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with

standard web application designs and ES2015-style JavaScript. About the Author Simon Holmes and Clive Harber are full-stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents PART 1 - SETTING THE BASELINE Introducing full-stack development Designing a MEAN stack architecture PART 2 - BUILDING A NODE WEB APPLICATION Creating and setting up a MEAN project Building a static site with Node and Express Building a data model with MongoDB and Mongoose Writing a REST API: Exposing the MongoDB database to the application Consuming a REST API: Using an API from inside Express PART 3 - ADDING A DYNAMIC FRONT END WITH ANGULAR Creating an Angular application with TypeScript Building a single-page application with Angular: Foundations Building a single-page application with Angular: The next level PART 4 - MANAGING AUTHENTICATION AND USER SESSIONS Authenticating users, managing sessions, and securing APIs Using an authentication API in Angular applications Economics in Nature Social Dilemmas, Mate Choice and Biological Markets Practical Node.js Testing Node.js Applications Node: Up and Running