



Brad Dayley

# Node.js, MongoDB and AngularJS

## Web Development



# Nodejs Mongodb And Angularjs Web Development Developers Library Ebook Brad Dayley

**Bruno Joseph D'mello, Mithun  
Satheesh, Jason Krol**



## **Nodejs Mongodb And Angularjs Web Development Developers Library Ebook Brad Dayley:**

**Node.js, MongoDB, and AngularJS Web Development** Brad Dayley, 2014-06-05 The definitive guide to building JavaScript based Web applications from server to browser Node js MongoDB and AngularJS are three new web development technologies that together provide an easy to implement fully integrated web development stack Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and AngularJS is quickly becoming the leading framework for MVC based front end development Together they allow web programmers to create high performance sites and applications built completely in JavaScript from server to client Node js MongoDB and AngularJS Web Development is a complete guide for web programmers who want to integrate these three technologies into full working solutions It begins with concise crystal clear tutorials on each of the three technologies and then quickly moves on to building several common web applications Readers will learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage AngularJS s innovative MVC approach to structure more effective pages and applications and how to use all three together to deliver outstanding next generation Web solutions

### **Node.js, MongoDB and Angular Web Development**

Brad Dayley, Brendan Dayley, Caleb Dayley, 2017-10-11 Node js MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and Angular is the leading framework for MVC based front end development Together they provide an easy to implement fully integrated web development stack that allows web programmers to create high performance sites and applications built completely in JavaScript from server to client Updated for Angular 2 Angular 4 and subsequent versions this new edition of Node js MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions It begins with concise crystal clear tutorials on each technology and then quickly moves on to building common web applications You ll learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage Angular s innovative MVC approach to structure more effective pages and applications and how to use all three together to deliver outstanding next generation Web solutions Implement a highly scalable and dynamic web server using Node js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server side web services in JavaScript Implement client side services that can interact with the Node js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment components to your web applications and pages Contents at a Glance Part I Getting Started 1 Introducing the Node js to Angular Stack 2 JavaScript Primer Part II Learning Node js 3 Getting Started with Node js 4 Using Events Listeners Timers and Callbacks in Node js 5 Handling Data I O in Node js 6 Accessing the File System from Node js 7 Implementing HTTP Services in Node js 8 Implementing Socket Services in Node js 9 Scaling Applications Using

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[Node.js, MongoDB and AngularJS Web Development LiveLessons](#) Brad Dayley, 2014 In this video training Brad Dayley starts by introducing the Node.js platform. He then introduces the NoSQL database MongoDB and describes how to configure and begin using it. The video then moves into incorporating high performance MongoDB databases into server-side Node.js applications and scripts. Next, the Express web server module for Node.js is covered, giving you the understanding you need to easily build up your own scalable web servers. The video then describes how to build out client-side applications using the AngularJS JavaScript framework. The video wraps up with some complete end-to-end examples of using the Node.js, MongoDB, and AngularJS framework. Resource description page

[Node.js, MongoDB, and AngularJS Web Development \(Developer's Library\)](#) Kiera J. Richardson, 2015-08-19 This updated and expanded second edition provides a user-friendly introduction to the subject. Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style, combined with the use of illustrations and diagrams throughout the text, ensures the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career. Business

[Web Development with MongoDB and Node](#) Bruno Joseph D'mello, Mithun Satheesh, Jason Krol, 2017-09-29 Use the two popular web development stacks, Node.js and MongoDB, to build full-featured web applications. About This Book Learn the new ECMAScript along with Node 8 and MongoDB to make your application more effective. Get the up-to-date information required to launch your first application prototype using the latest versions of Node.js and MongoDB. A practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as Angular4 and Hapi. Who This Book Is For The book is designed for JavaScript developers of any skill level who 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 prerequisite for this book. What You Will Learn Work with Node.js building blocks. 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. Automate test cases using Gulp. Reduce

your web development time by integrating third party tools for web interaction Deploy a 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 builds fast scalable network applications while MongoDB is the perfect fit as a high performance open source NoSQL database solution The combination of these two technologies offers high performance and scalability and helps in building fast scalable network applications Together they provide the power for manage any form of data as well as speed of delivery This book will help you to get these two technologies working together to build web applications quickly and easily with effortless deployment to the cloud You will also learn about angular 4 which consumes pure JSON APOIs from a hapi server The book begins by setting up your development environment running you 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 to interact with web apps You will see how to use controllers and view models to generate reusable code that will reduce development time Toward the end the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications By the end of the book you will have a running web application developed with MongoDB Node js and some of the most powerful and popular frameworks Style and approach A practical guide with clear instructions to designing and developing a complete web application from start to finish

*Node.js, MongoDB and Angular Web Development, 2nd Edition* Brad Dayley, Brendan Dayley, Caleb Dayley, 2017 Node js MongoDB and Angular Web Development The definitive guide to using the MEAN stack to build web applications Node js is a leading server side programming environment MongoDB is the most popular NoSQL database and Angular is the leading framework for MVC based front end development Together they provide an easy to implement fully integrated web development stack that allows web programmers to create high performance sites and applications built completely in JavaScript from server to client Updated for Angular 2 Angular 4 and subsequent versions this new edition of Node js MongoDB and Angular Web Development shows you how to integrate these three technologies into complete working solutions It begins with concise crystal clear tutorials on each technology and then quickly moves on to building common web applications You ll learn how to use Node js and MongoDB to build more scalable high performance sites how to leverage Angular s innovative MVC approach to structure more effective pages and applications and how to use all three together to deliver outstanding next generation Web solutions Implement a highly scalable and dynamic web server using Node js and Express Implement a MongoDB data store for your web applications Access and interact with MongoDB from Node js JavaScript code Learn the basics of TypeScript Define custom Angular directives that extend the HTML language Build server side web services in JavaScript Implement client side services that can interact with the Node js web server Build dynamic browser views that provide rich user interaction Add authenticated user accounts and nested comment

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**Learning AngularJS** Brad Dayley,2015 Learning AngularJS shows you how to create powerful interactive web applications that have a well structured reusable code base that will be easy to maintain You ll also learn how to leverage AngularJS s innovative MVC approach to implement well designed and well structured web pages and web applications AngularJS helps you to become a better web developer by forcing you to adhere to underlying structure and design rules Back cover

*Sams Teach Yourself NoSQL with MongoDB in 24 Hours* Brad Dayley,2015 NoSQL database usage is growing at a stunning 50% per year as organizations discover NoSQL s potential to address even the most challenging Big Data and real time database problems Every NoSQL database is different but one is the most popular by far MongoDB Now in just 24 lessons of one hour or less you can learn how to leverage MongoDB s immense power Each short easy lesson builds on all that s come before teaching NoSQL concepts and MongoDB techniques from the ground up Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this and much more Learning how NoSQL is different when to use it and when to use traditional RDBMSes instead Designing and implementing MongoDB databases of diverse types and sizes Storing and interacting with data via Java PHP Python and Node js Mongoose Choosing the right NoSQL distribution model for your application Installing and configuring MongoDB Designing MongoDB data models including collections indexes and GridFS Balancing consistency performance and durability Leveraging the immense power of Map Reduce Administering monitoring securing backing up and repairing MongoDB databases Mastering advanced techniques such as sharding and replication Optimizing performance

**Web Development with MongoDB and Node.js** Jason Krol,2014-09-25 This book is designed for 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

**MEAN Web Development** Amos Q. Haviv,2014-09-25 If you are a web or a full stack JavaScript developer who is interested in learning how to build modern web applications using the MEAN stack this book is for you

**AngularJS: Maintaining Web Applications** Rodrigo Branas,Chandermani,,Matt Frisbie,Amos Q. Haviv,2016-04-22 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

**NoSQL with MongoDB in 24 Hours, Sams Teach Yourself** Brad Dayley,2014-08-21 NoSQL database usage is growing at a stunning 50% per year as

organizations discover NoSQL's potential to address even the most challenging Big Data and real time database problems Every NoSQL database is different but one is the most popular by far MongoDB Now in just 24 lessons of one hour or less you can learn how to leverage MongoDB's immense power Each short easy lesson builds on all that's come before teaching NoSQL concepts and MongoDB techniques from the ground up Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this and much more Learning how NoSQL is different when to use it and when to use traditional RDBMSes instead Designing and implementing MongoDB databases of diverse types and sizes Storing and interacting with data via Java PHP Python and Node.js Mongoose Choosing the right NoSQL distribution model for your application Installing and configuring MongoDB Designing MongoDB data models including collections indexes and GridFS Balancing consistency performance and durability Leveraging the immense power of Map Reduce Administering monitoring securing backing up and repairing MongoDB databases Mastering advanced techniques such as sharding and replication Optimizing performance

**Getting MEAN with Mongo, Express, Angular, and Node** Simon Holmes, Clive Harber, 2019-04-22 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 **Pro MEAN Stack**

**Development** Elad Elrom,2016-12-29 This book teaches you to write free open source cross platform dynamic JavaScript applications that can run anywhere Using the MEAN stack MongoDB ExpressJS AngularJS and Node js you will get the tools you need to set up write your code once and be able to deploy your code on any device You will be able to cut development time by using one stack to serve all your development needs With Pro MEAN Stack Development you will quickly learn everything needed to work effectively with MEAN from setting up your toolstack to rolling out your free servers and deploying on any device As well as MEAN you will also learn to build scripts with Grunt and Gulp Webpack and Vagrant as well as deployment for the web and mobile using Phonegap Harness JavaScript to create dynamic and easily maintainable applications fast and 100% free Master the MEAN stack with this book today What You Will Learn Utilize JavaScript for the entire development cycle from front end to back end database and deployment Learn to write responsive code that can be deployed on any device Become a well rounded developer and be able to understand the entire development cycle Learn to utilize free open source and cloud services to deploy production grade code Who This Book Is For This book is for front or back end developers interested in utilizing the MEAN stack to deploy successful apps on all devices You need to have knowledge of JavaScript but no prior knowledge of using the MEAN stack is required *Write Modern Web Apps with the MEAN Stack* Jeff Dickey,2014 Annotation 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 **Node.js for Beginners** Ulises Gascón,2024-05-10 Build your first production grade web app from scratch using Node js Express MongoDB authentication and testing with guidance from a member of the Express Technical Committee as well as a Node js core collaborator and releaser Key Features Learn JavaScript async programming and event driven architectures in Node js Discover best practices for secure deployment and testing of Node js apps Build a feature rich web app from scratch using MongoDB Express js and passport js including testing Purchase of the print or Kindle book includes a free PDF eBook Book Description Node js revolutionizes server side JavaScript development and empowers developers to build efficient scalable and versatile applications across a range of use cases This book is written by a Node js core collaborator and releaser and is the only book for beginners on Node js It takes you on a progressive learning path that will give you the skills needed to leverage Node js

You'll learn Node.js fundamentals and refresh your knowledge of JavaScript before transitioning to the development of modern web applications using Node.js, Express.js, and MongoDB. You'll get hands-on with complex topics such as asynchronous programming, npm libraries, event-driven patterns for HTTP servers, RESTful API, and JSON Web Tokens. The final chapters will walk you through the deployment process, offering insights into various strategies including bare metal setups, virtual machines, and containerization with Docker. You'll also be guided through the use of Process Manager 2 (PM2) for efficient process management. By the end of this Node.js book, you'll have the skills to craft, test, and deploy Node.js web applications confidently and use this powerful stack in your day-to-day projects.

What you will learn:

- Build solid and secure Node.js applications from scratch.
- Discover how to consume and publish npm packages effectively.
- Master patterns for refactoring and evolving your applications over time.
- Gain a deep understanding of essential web development principles, including HTTP, RESTful API design, JWT authentication, authorization, and error handling.
- Implement robust testing strategies to enhance the quality and reliability of your applications.
- Deploy your Node.js applications to production environments using Docker and PM2.

Who this book is for:

This book is for developers eager to learn Node.js swiftly and utilize it for web application development. Front-end developers looking to delve into back-end development or become full-stack developers using Node.js will also benefit from this book's comprehensive coverage of topics.

Before you get started with this book, you'll need to be familiar with the basics of coding JavaScript programming or another language, Git and/or GitHub, and front-end development, as these topics aren't covered in the book.

**Full Stack JavaScript Development With MEAN** Colin J. Ihrig, Adam Bretz, 2014-12-24

With modern tools, it is possible to create a production-grade full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack, the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine, as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full-stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js, which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting

tools analyze source code and report potential issues a feature that is especially useful in non-compiled languages like JavaScript

**Write Modern Web Apps with the MEAN Stack** Jeff Dickey, 2015 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

**Beginning Node.js, Express & MongoDB Development** Greg Lim, 2019-07-10 In this book we take you on a fun hands on and pragmatic journey to learning Node.js Express and MongoDB development You'll start building your first Node.js app within minutes Every chapter is written in a bite sized manner and straight to the point as I don't want to waste your time and most certainly mine on the content you don't need In the end you will have the skills to create a blog app and deploy it to the Internet In the course of this book we will cover Chapter 1 Introduction Chapter 2 Introduction to npm Express Chapter 3 Beginning our Blog Project Chapter 4 Templating Engines Chapter 5 Introduction to MongoDB Chapter 6 Applying MongoDB to our Project Chapter 7 Uploading an Image with Express Chapter 8 Introduction to Express Middleware Chapter 9 Refactoring to MVC Chapter 10 User Registration Chapter 11 User Authentication with Express Sessions Chapter 12 Showing Validation Errors Chapter 13 Relating Post Collection with User Collection Chapter 14 Adding a WYSIWYG Editor Chapter 15 Using MongoDB Atlas Chapter 16 Deploying Web Apps on Heroku The goal of this book is to teach you Node.js Express and MongoDB development in a manageable way without overwhelming you We focus only on the essentials and cover the material in a hands on practice manner for you to code along About the Reader No previous knowledge on Node.js development required but you should have basic programming knowledge About the Author Greg Lim is a technologist and author of several programming books Greg has many years in teaching programming in tertiary institutions and he places special emphasis on learning by doing

*Node.js: Related Tools & Skills* Craig Buckler, Jani Hartikainen, M. David Green, Olayinka Omole, Ahmed Bouchebra, Mark Brown, Paul Sauve, Manjunath M, 2018-11-30 While there have been quite a few attempts to get JavaScript working as a server side language Node.js frequently just called Node has been the first environment that's gained any traction It's now used by companies such as Netflix Uber and Paypal to power their web apps Node allows for blazingly fast performance thanks to its event loop model common tasks like network connection and database I/O can be executed very quickly indeed In this book we'll take a look at a selection of the related tools and skills that will make you a much more productive Node developer It contains Unit Test Your JavaScript Using Mocha and Chai by

Jani Hartikainen An Introduction to Functional JavaScript by M David Green An Introduction to Gulp js by Craig Buckler A Side by side Comparison of Express Koa and Hapi js by Olayinka Omole An Introduction to Sails js by Ahmed Bouchefra Building Apps and Services with the Hapi js Framework by Mark Brown Create New Express js Apps in Minutes with Express Generator by Paul Sauve Local Authentication Using Passport in Node js by Paul Orac An Introduction to MongoDB by Manjunath M This book is for anyone who wants to start learning server side development with Node js Familiarity with JavaScript is assumed

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