

100+ FREE Resources to Learn Full Stack Web Development



Brandon Morelli

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A couple years ago I dove into Web Development. It's been a fun, but challenging journey. As my knowledge continues to grow, I've realized I have a plethora of free information that I've saved along the way. It's taken me a while, but I've finally gone through and sorted them all.

My links focus on JavaScript, React, and Node.js. It's a mix of articles, tutorials, classes, discussion posts, and courses.

There is also a wealth of information on knowing when you're ready to apply for jobs, interview prep, success stories, and more.

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Start Here

- Take a look at the big picture: Web Developer Roadmap
- YouTube video outlining what to learn (similar to above, but in video format) — Watch this if you want to become a web developer
- My journey to becoming a web developer from scratch without a CS degree (and what I learned from it) (Medium)
- What happens when you type google into your address bar? [Reddit Link]

- Tuts Plus — The http protocol every web developer must know
- Find a local Web Development related Meetup!

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How to Learn

- Coursera Course (Not CS Specific) — Learning how to learn
- Repetition, Repetition, Repetition — A great discussion on study techniques Reddit Post

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What is the Single most useful CS Bookmark you have?

- What is the single most useful CS Bookmark you have? [Reddit Link]
- Learn X in Y Minutes
- What CS Majors Should Know
- Google's Technical Development Guide
- CSS Tricks — Complete Flexbox Guide
- Regex Cheat Sheet
- DevDocs
- Awesome List of Everything Programming
- How to Break Into the Tech Industry — a Guide to Job Hunting and Tech Interviews

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Programs and Classes

Programs

- The Web Developer Bootcamp by Colt Steele. This is the only paid resource on this document. I include it because it is worth its weight in gold. It's inexpensive (less than \$20) and one of the best resources out there. If you're going to buy one course, buy this one.
- The Odin Project
- freeCodeCamp
- The Essential Web Developer Course

Classes

- SANITIZED list of 530+ free online programming/CS courses (MOOCs) with feedback(i.e. exams/homeworks/assignments) that you can start this month (December 2016) — *Needs Updating*
- Udacity Free Web Development Courses (Google)

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Learn HTML

- 25 HTML & CSS Tutorials

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Learn CSS

- Everything you need to know about Flexbox *Seriously the best Flexbox resource I've found*
- A visual guide to CSS — CSS Reference
- CSS Pro Tips — A collection of tips to help take your CSS skills pro.
- 10 principles for smooth web animations

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Learn JavaScript

- Javascript Docs

Courses/Tutorials

- JavaScript for Beginners — Understand the hard stuff
- Javascript for Beginners (1) EDX
- Javascript for Beginners (2) EDX
- Javascript The Right Way
- Courses.AngularClass.com — Topics Include: webpack, nodejs, npm, es5, es6, esnext, & rxjs, typescript
- [Course Link] [Reddit Post]
- Edabit — Learn JavaScript With Interactive Challenges: Earn XP, Unlock Achievements & Climb The Leaderboard
- [Edabit — Website Link] [Reddit Post]
- Free Advanced JavaScript Courses — Learn Object Oriented Programming, Call Apply, and Bind, Testing, Functional Programming, and much more
- Intermediate Course — Udacity — OOP JS
- JavaScript Tutorial

Understanding Tougher Topics

- JavaScript — The keyword 'this' for beginners
- JavaScript — Arrow Functions for Beginners
- JavaScript for Beginners: The new Operator
- Javascript: Learn Regular Expressions for Beginners
- JavaScript Template Literals and Tag Functions for Beginners
- JavaScript & the spread operator

Projects

- JS 30 For 30–30 Projects for 30 Days
- Learn to Code with Projects — enlight.ml
- 13 Weeks of JavaScript (Medium) — TONS of links to JS resources

Articles/Books

- Recursion, Recursion, Recursion (Medium)
- Eloquent JS — Free JavaScript Ebook
- You don't know JS — Free, hosted on GitHub
- JavaScript Garden — learn about the quirky parts of JS
- JS — The Good Parts .pdf
- Learning js Design patterns — Reusable solutions to commonly occurring problems
- Asynchronous Module Definition

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Learn React JS

- Official React Docs
- Official React Tutorial

3rd Party Tutorials

- 10 React Mini Patterns
- Top 5 Tutorials for getting started with React
- 10 best ReactJS tutorials
- React Starter Project Search
- Exploring the react Ecosystem! — Article
- Code academy React program
- Great Free React books — Use this link first

Medium Links:

- [React Components, Elements, and Instances \(Medium\)](#)
- [Working with React](#)
- [Beginners guide to React Router \(Medium\)](#)
- [Angular JS vs React JS \(Medium\)](#)

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Full Stack Tutorials

- [Intro to Back End Web Development](#)
- [Deploying Applications with Heroku](#)
- [Client Server Communication](#)
- [Serverless Stack](#) is a comprehensive guide to creating full-stack serverless applications. Create a note taking app from scratch using React.js, AWS Lambda, API Gateway, DynamoDB, and Cognito.
- [Express — Using a DB with Mongoose](#)
- [Node JS and Databases](#)
- [Node JS and Authentication](#)
- [Express JS Database Integration](#)
- [MERN Stack Tutorial — Mongo, Express, React, Node](#)
- [MongoDB MERN Tutorial Series](#)
- [Full Stack MERN Tutorial — YouTube](#)
- [Build a URL Shortener with Node, Hapi, and Mongo](#)
- [How to Create a Complete Express.js + Node.js + MongoDB CRUD and REST Skeleton](#)
- [Building web app using react.js, express.js, node.js and mongodb — Part 1, 2](#)

- Trello tribute with Phoenix, React, Redux, PostgreSQL — 12 parts
- Create a character voting app using React, Node.js, MongoDB and Socket.IO
- Building a React Universal Blog App: A Step-by-Step Guide
- Building a Secure RESTful Node.js app

Cool stuff other people have built:

- Belgian Beer Explorer with React, Bootstrap, Node.js and Postgres
- 90 Full Stack React Examples (some with tuts)

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Learn Node JS

Official Node.js Docs

- 25 Node JS Tutorials
- Best Resources for learning Node.js [Reddit Link]
- YouTube
- Node School
- Medium — Why the hell would you use Node?
- Build a simple Twitter Bot with Node.js in just 38 lines of code
- Building a modern backend API with Node
- Node JS Login with Passport — YouTube
- 10 Best Practices for Writing Node.js REST APIs

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Learn Python

- 15 Free e-books to learn Python

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Learn APIs

- Where to start with learning APIs [Reddit Link]
- What is an API? In English Please. (Medium)
- Build Node.js RESTful APIs in 10 Minutes
- Free Intro to APIs Book/Course by Zapier
- Google Maps API
- Distance Calculator Web Services API
- Build and Secure a Backend API Server

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Learn Databases

- SQL vs NoSQL
- Intro to Relational Databases — SQL, DB-API, and More!
- MongoDB University — Numerous classes on learning MongoDB
- PostgreSQL Tutorial
- PostgreSQL Exercises
- Learn PostgreSQL (GitHub)
- Try Redis
- Redis Tutorial

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Learn Authentication

- Authentication & Authorization: OAuth

- [Learn about JSON Web Tokens](#)
- [OAuth 2](#)
- [Passwordless Authentication with React and Auth0](#)

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Learn Git

[Official Tutorial — Learn Git in 15 Minutes](#)

[Official Docs](#)

Other Tuts:

- [Git, the simple guide](#)
- [Learn Git Branching — Level by Level learning](#)
- [Learn Git in 30 Minutes — Article](#)
- [Here are all the Git commands I used last week and what they do \(Medium\)](#)
- [Why to Use GIT No, I have no side projects to show you](#)

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Games and Challenge Websites

[Games to learn Programming in an easy and fun way \[Reddit Link\]](#)

- [Flex Box Froggy](#)
- [Flex Box Defense](#)
- [Edabit](#)
- [Coding Game](#)
- [Elevator Saga — JS](#)
- [Scratch — Absolute Basics](#)

- Hacked — Mobile App teaching through puzzles

Coding Challenge Websites [Reddit Link] [Reddit Link #2]

- Medium — 10 most popular coding challenge sites of 2016
- Codechef
- Code Wars
- Coding Game
- Hacker Rank (some debate about this being good/bad)
- Project Euler (math focus)
- Exercism

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Free Programming Books

- O'Reilly Offering Programming eBooks for Free (Reddit)
- GitHub — Thousands of free programming Books on every topic
- Non-Technical Books to make you a better Programmer (Reddit)

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Open Source Contribution Opportunities

- Contributing to Open Source on GitHub — The official GitHub guide.
- Make your first open source contribution in 5 minutes
- How do I get skilled enough to work on open source projects?
- Exercism, an open source project to learn programming and a good opportunity to get you started contributing on github.
- Open Source Contribution Opportunitites [Reddit Discussion]

- Redditor Form to fill out to get notified about Open Source Opportunities
- Up For Grabs — Browse a list of projects with curated tasks
- Hacktoberfest — Open source activity held every October. Easy to participate, and you get a free t-shirt!
- I'm afraid if I say anything on GitHub people will laugh at me and I will die.

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Am I Ready to be a Developer?

- Self taught front end devs... When did you know that you were “Job ready”?
- People who are self-taught developers, how long did it take you to get your first job?
- When do you know when you're ready to start interviewing?
- Software developers- what is the best advice you have for people learning CS?
- I want a career in programming
- What should you know as a web dev just out of college?
- Reddit Discussion — newer
- What CS Majors Should Know — older
- How I got started with Side Projects — link
- What are some goals a beginning Self-Taught Developer should have?
- Computer programmers of Reddit, what is your best advice to someone who is currently learning how to code?
- I began teaching myself to code a year ago. I got hired at my first job 4 months ago. Here is a breakdown of somethings I was not ready for (FYI job is remote ruby/rails dev)

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Whether you're just starting to learn, or you've been learning for a while, there should be a little something for everyone in here.

Update: March, 2018 —Welcome to Codeburst.io! I created CodeBurst so I could easily share web development news, tutorials and articles with others. **Please consider following our publication and signing up for my weekly newsletter below!** I am constantly publishing new resources, tutorials, articles and news and you don't want to miss out on any of the great resources! No spam, ever. (If you don't see the sign-up form below, [click here](#))

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Software Developer Success Stories

- 18 months ago I didn't know how to code, I'm now a self-taught programmer who's made apps for the NBA, NHL, and schools like Purdue, Notre Dame, Alabama and Clemson. I'm now releasing my software under the MIT license for anyone's use — AMA!
- Last year I was unemployed and miserable. Using this sub and resources, I've been full time employed for a year. I did it with all free resources. I wanna share with you how I did it. (IOS)
- I began teaching myself to code a year ago. I got hired at my first job 4 months ago. Here is a breakdown of somethings I was not ready for (FYI job is remote ruby/rails dev)
- I'm 32 years old, and just started my first full-time job as a developer. One year ago my programming knowledge was basically nil. Everything I learned, I found via /r/learnprogramming, so just wanted to share my experience.
- From zero to software developer — Not really a success story, but a lot of redditors share how they learned. Great for beginners with no path

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Get The Job

Resume, Portfolio, LinkedIn, Interview Prep, and Salary Information

Make your portfolio

- Customizable Web Developer Portfolio — Built with Flexbox.

How to Apply

- I spent 3 months applying to jobs after a coding bootcamp. Here's what I learned. (Medium)
- Lessons from my Post-bootcamp Job search (Medium)
- How to land a six figure job in tech with no connections (Medium)

Resume & LinkedIn

- What are some of the best resume formats you've seen?
- Model examples for Fullstack Developer LinkedIn profiles

Personal Projects

- Recruiters, what kind of CS projects impress?

Interview Prep

- CS50 — Prep and Practice for Technical Interviews [YouTube]
- How to Break Into the Tech Industry — a Guide to Job Hunting and Tech Interviews

Common JavaScript Interview Questions Repo

- GitHub Repo — All questions and answers
- Reddit Post — Discussion, with additional questions and answers
- Ammon Bartram — Ask an interviewer anything: interview questions, answers, mistakes
- Sharing some interview tips (Silicon valley employee)
- Job interview questions to ask the interviewer
- I suck at programming interviews.
- When solving an interview problem, talk all the time.
- Hiring managers (or other seasoned developers), what qualities do you look for in your ideal candidate?
- Post your best interview questions
- Been interviewing with a lot of tech startups as a frontend dev, here are the technical questions I've been asked (MID-SENIOR LEVEL)
- 10 Interview Questions every JS Developer should know (Medium)

Salary Information

- 12/2016 Salary Sharing Thread (<2 yrs Experience)
- Salary Negotiations and how not to set a bunch of money on fire (Medium)
- 10 Rules for negotiating a job offer (Medium)
- How not to bomb your offer negotiation (Medium)

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♥ If this post was helpful, please hit the little heart! And don't forget to check out my other recent articles:

- JavaScript: The Keyword this for Beginners
- JavaScript: Regular Expressions For Beginners
- And when you're ready to really dive into Web Development — 5 Best Udemy Courses for Learning Full Stack Web Development

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