

Web Development In 2018

No Matter Which Route You Take

- Basic Terminal Usage
- Basic SSH
- Github Basics
- Learn How Client & Server Talk To Each Other
- RESTful Web Services / GET POST PUT DELETE requests
- Domain name and DNS basics

I Keep Coupons & Deals updated here

Basic Front End

- HTML
 - The basics
 - Layouts & Grids (grid and flexbox)
 - Responsive Design (media queries)
 - Responsive Images
 - CSS Animation
- CSS
- Javascript
 - Fundamentals
 - Basics
 - Querying, Selecting, working with DOM
 - Closures, Scope, Context & First-Class Functions
 - Modular Javascript
 - XHR (AJAX) with Fetch
 - jQuery (not really required anymore)
 - Publish "website"
 - Setup webhost and domain
 - (I recommend hostgator Use Code DROP25PERC, DROP10BUCKS, LETSMAKEADEAL)
 - Upload HTML/CSS/JS files to website

Backend

- Backend Developer / Engineer
- Fullstack Engineer / Developer
- Software Developer/Engineer/Architect
- Node.js/Python/Ruby/PHP/.NET/... Developer/Engineer
- Platform Engineer/Architect
- DBA (database administrator...Databases are your passion)

Scripting Languages

- Node.js (express^, hapi^)
 - I have a Node.js Course!
- Python (django, flask^)
- Ruby (Ruby on Rails, Sinatra^)
- PHP (Laravel, Lumen^)

Functional Languages

- Haskell
- Scala
- Clojure
- Elixir

High-Performance Languages

- Go (a.k.a. GoLang)
- Rust

Notable Others

- Java
- C# / .NET
- AWS Lambda + Serverless

Data

- Relational Databases: MySQL, PostgreSQL
- Caching: Redis, Cassandra
- Document Databases: MongoDB, Couchbase, RethinkDB
- Search Engine: ElasticSearch, Solr
- Graph Databases: Neo4j, OrientDB
- Message Brokers (RabbitMQ, ZeroMQ, Kafka)

Things to Learn for your Language/Framework

- Package Management
- Unit/Functional Testing
- RESTful API, GraphQL API
- Security Best Practices
- Authentication/Authorization: OAuth2 / JWT
- Deploying your app (package with Docker, run on a server with Docker installed)
- Websockets
- ORM / Data Management

Front End

- React/Vue/Angular Developer
- Web Developer
- Frontend Developer
- Frontend Engineer
- Javascript Engineer
- Job Titles

Frond End Build Tools

- NPM Scripts
- Webpack
- Front-End Performance

Static Type Checkers

- Flow
- Typescript

JS Skills

- ES6 (2015/16/17)
- Functional Programming (rx.js)
- Service Workers

Javascript Frameworks

- React.js
 - Frameworks
 - Relay / Apollo for GraphQL (Big, complex)
 - Next.js or After.js (Server-Side Rendered Apps)
- Vue
 - Nuxt (Next.js for Vue)
 - Vuex (Redux-ish for Vue)
- Angular
- Ember.js
- State Management
 - MobX
 - Redux
 - Flux (good to know for history's sake)
 - Using Rx.js & Bacon.js
- Unit Testing
 - Jest
 - Mocha
 - Karma (run Jest or Mocha in browsers)
 - Enzyme (react)

CSS

- Frameworks
 - Relay / Apollo for GraphQL (Big, complex)
 - Next.js or After.js (Server-Side Rendered Apps)
- Next.js or After.js (Server-Side Rendered Apps)
- Glamorous
- Emotion
- Styled-Components

CSS Tools & Skills

- Precompilers: SASS / PostCSS / LESS / Stylus
- CSS Frameworks
 - CSS Grid (you might not need a framework anymore!)
 - Bootstrap
 - Materialize
- CSS Organization
 - BEM
 - Atomic (design)
 - SMACSS