Software Development for Web and Mobile

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2020-04-20

Plan for today

Today we will:

- See what's next for us to learn in web development

Disclaimer

All the following are just pointers in case you're interested in broadening your knowledge in a specific area of web development

Frontend

CSS

Preprocessors

CSS preprocessors help us keep our CSS code under control by giving us lots of nice features such as **variables, mixins**, etc

- **Sass**

- **Less**

Bootstrap

You've already seen bootstrap. Bootstrap is a frontend library to make creating websites much easier thanks to all its comoponents

Javascript

Testing

Learn how to apply the testing techniques you already know to JS. Some libraries:

- **Jest**
- **Mocha**

Libraries

Using & installing JS libraries in your projects with **NPM**

Frameworks

Learn a framework for frontend applications:

- **Vue.js**
- **React**
- **Angular**

Tooling

Task runners

Task runners will help you keep your project organized. They're used to run tasks such as: Minify CSS & JS, run tests, compile SASS...

Gulp.js

Backend

Deployment

When deploying our web applications there are several options:

- **PAAS (Heroku)**
- **Containers (Docker)**

Databases

SQL databases

Learn now to use databases correctly in the backend.

- **ORMs**
- **DB Migrations**

No-SQL databases

There are times in which we don't need a SQL database, so people use no-sql databases. They have their pros & cons, but it's good to know a bit about them. Some examples are:

- **Mongo DB**
- **Redis**

For both frontend & backend

Design patterns

Design patterns are solutions to common problems in software engineering. It's handy (and sometimes required) to know them.

https://sourcemaking.com/design_patterns

Git

Learn how to use git correctly, it will save you a lot of time

https://github.com/dictcp/awesome-git

Github

Use github to your benefit. Lurk around searching for interesting projects, see how things are built, contribute, showcase your stuff

Continuous integration

Continuous integration is the process of checking that the quality of your code meets the standards of the project everytime you try to merge code.

- **travis-ci.org**
- **https://circleci.com**

Code interviews

Interview questions

Code interviews are a subject for which people normally prepare a lot. If you're pursuing a career in software development make sure you spend some time preparing for coding interviews.

https://github.com/MaximAbramchuck/awesome-interview-questions

References

https://codeburst.io/the-2018-web-developer-roadmap-826b1b806e8d

https://github.com/sorrycc/awesome-javascript

https://github.com/awesome-css-group/awesome-css

https://github.com/uhub/awesome-python