Concepts List

Below you'll find a list of concepts and topics that you'll need to learn throughout the cohort in order to succeed in your role.

As you build the mock project, and throughout the rest of the cohort, check off these concepts as you encounter them. You don't need to have a perfect understanding of the concept, but as long as you're familiar with the overall idea, you can check it off.

HTML

- [ ] Text
- [ ] Images
- [ ] Links
- [ ] Inputs & Forms
- [ ] JSX - HTML for React
- [ ] Using Font Awesome Icons

CSS

- [ ] Syntax
    - [ ] Selectors
- [ ] Basics
- [ ] CSS Units
- [ ] Selectors
    - [ ] Element Selectors
    - [ ] Class Selector
    - [ ] ID Selector
    - [ ] Descendent Selector
    - [ ] Psuedoselectors like :hover
    - [ ] Understanding Specificity
- [ ] The Box Model

- ☐ Margin
- ☐ Padding
- ☐ Display Modes
  - ☐ Block
  - ☐ Flex
  - ☐ Grid
- ☐ Flexbox!!!
- ☐ Position
  - ☐ Relative
  - ☐ Absolute
  - ☐ Fixed
  - ☐ Sticky
- ☐ Media Queries

JavaScript

- ☐ Variables
- ☐ Loops
  - ☐ .map()
  - ☐ .forEach()
  - ☐ Traditional for loops
- ☐ Data Types
- ☐ Conditionals
  - ☐ If/else
  - ☐ Ternary operator
- ☐ Arrays
- ☐ Objects
- ☐ Functions
- ☐ Imports & Exports (ES6)

☐ Using the Fetch API

React

☐ Components

☐ Props

☐ Conditional Rendering

☐ Rendering Lists with .map()

☐ useState

☐ useEffect

☐ Binding Functions to Events - onClick, onSubmit, onChange

☐ Forms in React - Controlled Inputs

☐ Client-side Data Fetching

NextJS

☐ NextJS Project Structure

☐ Fetching initial page data using getServerSideProps

☐ Dynamic Routing

Git & GitHub

☐ Using the VSCode GUI

☐ Staging Changes

☐ Committing Changes

☐ Pushing Changes

☐ Creating Branches

☐ Making Pull Requests

☐ Switching Between Branches

☐ Merging Branches

☐ Dealing with Merge Conflicts

General

- ☐ HTTP Methods
    - ☐ GET
    - ☐ POST
    - ☐ DELETE
    - ☐ PUT
- ☐ Using Postman
- ☐ VSCode
- ☐ Basic Terminal Commands
    - ☐ cd
    - ☐ ls
- ☐ Using npm

Resources

Your Career in Web Development Starts Here | The Odin Project

The Odin Project empowers aspiring web developers to learn together for free

https://www.theodinproject.com/

freeCodeCamp.org

Learn to Code — For Free

https://www.freecodecamp.org/

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HTML & CSS Full Course - Beginner to Pro

Certificates are now available!
https://courses.supersimple.dev/courses/html-css
🎓 Enroll to get a Certificate of Completion and an elevated learning
▶ https://www.youtube.com/watch?v=G3e-cpL7ofc

The Web Developer Bootcamp: Learn HTML, CSS, Node, and More!

10 Hours of React just added. Become a Developer With ONE course - HTML, CSS, JavaScript, React, Node, MongoDB and More!

🖼 https://www.udemy.com/course/the-web-developer-bootcamp/

The Modern React Bootcamp (Hooks, Context, NextJS, Router)

Just published! Follow the same curriculum I teach my students in SF. 10+ projects including one HUGE application!

🖼 https://www.udemy.com/course/modern-react-bootcamp/

W3Schools Online Web Tutorials

W3Schools offers free online tutorials, references and exercises in all the major languages of the web. Covering popular subjects like HTML, CSS, JavaScript, Python, SQL, Java, and many, many more.

w³ https://www.w3schools.com/

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