6-Month Front-End Checklist v.1.2

STRUCTURE — MONTH 1

Setup Development Environment & Implement Version Control

- [ ] Install Node.JS, GitBash, Chrome & Visual Studio Code
- [ ] Create a GitHub Account
- [ ] Download VS Code Extensions & Learn Common Shortcuts
- [ ] Practice Basic Terminal Commands
- [ ] BONUS: Create a WordPress or HashNode Blog to Document Your Journey

Comprehend How the World-Wide-Web Works & Browser Dev Tools

- [ ] Study the Internet Basics & How the Web Works
- [ ] Understand the Full Development Cycle
- [ ] Be Able to Articulate What A Front-End Developers is Responsible For Doing
- [ ] Experiment with the Chrome Developer Tools

Build Websites Using Semantic HTML

- [ ] Define HTML and Why it is Used
- [ ] Create Your First HTML File
- [ ] Examine HTML Elements & Attributes
- [ ] Implement Lists, Links, Forms, Images & Tables
- [ ] Grasp Semantic HTML and Why it is Important

Style Applications Using the Fundamentals of CSS

- [ ] Grasp How CSS Works & Explain its "Cascading" Effects
- [ ] Examine CSS Syntax & Basic Selectors
- [ ] Comprehend the Box Model
- [ ] Practice Simple Positioning Techniques
- [ ] Research Typography, Color, and Background Styling Methods

STYLE — MONTH 2

Learn Advanced CSS Concepts & Sass

- [ ] Compare CSS Naming Conventions & Understand the Idea Behind BEM
- [ ] Grasp Relative Sizing Units (rem, em, vh, vw, etc.)
- [ ] Learn CSS Pseudo-Selectors & Pseudo-Elements
- [ ] Practice Using Transitions & Animations
- [ ] Learn, Implement & Apply SASS

Build Mobile-Friendly Responsive Websites

- [ ] Realize the Benefits of Mobile-First Design
- [ ] Practice Media-Queries
- [ ] Master CSS Layout By Utilizing Flexbox
- [ ] Investigate CSS Grid for More Advanced Layout Control

Optimize Websites for SEO & Accessibility

- [ ] Learn Significant Meta Tags
- [ ] Understand JavaScript Minification Strategies
- [ ] Utilize Advanced Image Optimization Techniques
- [ ] Comprehend Google Lighthouse Metrics
- [ ] Setup Analytics on Websites
- [ ] Investigate Adding Sitemaps, Manifests & Favicons
- [ ] Study & Implement Vital Accessibility Features

Supplementary Content

- [ ] Master Advanced CSS Animations
- [ ] Cultivate UI/UX Skills Using Figma

Milestone Project

- [ ] Create Your (Responsive) Portfolio Project

FUNCTIONALITY — MONTH 3

Aquire JavaScript Fundamentals

- [ ] Dive into the JavaScript Syntax Documentation
- [ ] Practice Writing Loops & Conditional Statements
- [ ] Understand How Functions Work
- [ ] Compare Object-Oriented Programming vs. Functional Programming

Improve Knowledge of JavaScript (Data Structures, Built-In Methods & More)

- [ ] Comprehend JavaScript Data Types & Their Use-Cases
- [ ] Master the Essential JS Built-In Array Methods
- [ ] Investigate Different JS Design Patterns
- [ ] Create a Comprehensive Mental Model of How JavaScript Works
- [ ] Explore Asynchronous Coding & Why it is Important
- [ ] Adventure Into the World of API's & HTTP Requests

Build Functional Applications Using JavaScript

- [ ] Create a Contact Form
- [ ] Code an Image Gallery
- [ ] Build a Functional JavaScript Clock

Supplementary Content

- [ ] Advance Your JavaScript with Typescript

Milestone Projects

- [ ] Code a Content Gallery w/ Filterable Results
- [ ] Create a Note-Taking App (using JavaScript)

FRAMEWORKS — MONTH 4

Grasp the Core Concepts of React

- [ ] Learn JSX and React Rendering
- [ ] Comprehend Components & Their Lifecycle
- [ ] Practice Passing Props
- [ ] Learn About Lists & Keys
- [ ] Analyze Built-In React Hooks

Dive Deeper into React & Application Design

- [ ] Study the Differing Approaches to React Forms
- [ ] Compare Composition vs. Inheritance
- [ ] Learn to "Think in React"
- [ ] Master Using React Router
- [ ] Compare State Management Solutions (Context, Local State, Redux, etc.)
- [ ] Create Your Own React Hooks

Investigate NextJS & TailwindCSS

- [ ] Compare SSR vs. CSR
- [ ] Understand When You Would NextJS
- [ ] Read NextJS Documentation
- [ ] Practice the NextJS Fundamentals
- [ ] Learn about TailwindCSS and See if it is Right For You
- [ ] Build a Blog Website Using NextJS & TailwindCSS

Supplementary Content

- [ ] Integrate Software Testing Methodologies
- [ ] Practice Building Progressive-Web-Apps

Milestone Projects

- [ ] Construct an eCommerce Application (using React)
- [ ] Create a Course Platform (using NextJS)
- [ ] Code a Job-Board Application (using TailwindCSS)

ASSEMBLE — MONTH 5

Design an Alluring Resume

- [ ] Learn What Information is Essential On a Resume
- [ ] Analyze Ways You Can Showcase Your Abilities (Even w/ No Relevant Experience)
- [ ] Create or Purchase a Resume Template
- [ ] Build Out Your Resume & Receive Feedback

Create an Application Strategy

- [ ] Compare Application Strategies (Mass Mail vs. Personal Approach)
- [ ] Realize What Metrics to Track
- [ ] Create an Application Plan & Tracking System

Practice JavaScript Algorithms (Job-Ready JavaScript)

- [ ] Study the Most Common Interview Questions
- [ ] Learn Algorithms & Data Structure Fundamentals
- [ ] Read or Watch JavaScript Algorithm Solutions
- [ ] Practice JavaScript Coding Challenges

Supplementary Content

- [ ] Join an Event or Meetup
- [ ] Study Productivity for Programmers

Milestone Projects

- [ ] Set up Application Tracking Software & Strategy
- [ ] Produce an Interview Preperation Guide (Applicaiton, Blog, or GitHub Repository)
- [ ] Update Your Portfolio & Online Presence

ACCOMPLISH — MONTH 6

Continue Building Projects, Practicing Algorithms & Networking

- [ ] Code Every Day
- [ ] Practice Algorithms in JavaScript Every Day
- [ ] Continue Networking & Reaching Out on LinkedIn Every Day
- [ ] Join Meetups, Talk with Others, and Build Relationships

Drill Down Behavioral Interview Delivery

- [ ] Look Up Most Common Behavioral Interview Questions
- [ ] Create Responses that Showcase Your Unique Personality & Abilities
- [ ] Practice Your Answers In front of Others

Ace the Coding Interviews

- [ ] Master Relaxation Techniques During Interviews
- [ ] Learn Subtle Tricks You Can Employ During Interviews
- [ ] Enroll In An Interview Course or Program
- [ ] Write Follow-Up Messages For Each Interview

Prepare for Your First Front-End Developer Job

- [ ] Review Your GitHub Knowledge
- [ ] Study Their Tech Stack
- [ ] Celebrate Your Amazing Journey

Supplementary Content

- [ ] Grasp the Fundamentals of Planning an Application

Milestone Project

- [ ] Build a Capstone Project of Your Choosing