

Full-Stack Developer & Problem Solving Roadmap

1. Frontend Development (2 Months)

- HTML, CSS (Responsive Design with Tailwind or Bootstrap)
- JavaScript (DOM Manipulation, Fetch API)
- React.js (Components, State, Props, Hooks, Router)
- Responsive Web Design

Projects:

- To-Do App
- Weather App
- Movie Search App

2. Backend Development (2 Months)

- Node.js & Express.js Basics
- REST API Development
- CRUD Operations (Create, Read, Update, Delete)
- MongoDB & Mongoose ORM
- JWT Authentication & Security

Projects:

- Blog API (CRUD Operations)
- Task Manager App

3. Full-Stack Development & Job Prep (2 Months)

- Connect React.js with Node.js API
- Redux or Context API for state management
- Deployment (Vercel, Netlify, Render)
- DSA (Data Structures and Algorithms) practice

Projects:

- E-commerce Website (User Auth, Cart, Payment Integration)
- Social Media Clone (Post, Like, Comment, Chat)
- Portfolio Website (Showcase Projects)

4. Problem Solving (DSA) Practice

- JavaScript Algorithms & Data Structures (freeCodeCamp)
- LeetCode (Easy & Medium Problems)
- HackerRank (JavaScript Challenges)
- CodeWars (JS Challenges)

Steps:

1. Week 1-2: Basic Problems (Loops, Arrays, Strings)
2. Week 3-4: Medium Problems (Recursion, Sorting, Searching)
3. Week 5-6: Advanced Topics (Graph, DP, Trees)

Useful Resources:

- freeCodeCamp: <https://www.freecodecamp.org/>
- LeetCode: <https://leetcode.com/>
- HackerRank: <https://www.hackerrank.com/>

- CodeWars: <https://www.codewars.com/>

Important Links to Start Learning:

- freeCodeCamp: <https://www.freecodecamp.org/learn/>

- LeetCode: <https://leetcode.com/>

- GitHub: <https://github.com/>

- CodeWars: <https://www.codewars.com/>

- Portfolio Website: <https://www.netlify.com/>