Full Stack Roadmap for First Year Students

1. Web Basics: HTML, CSS, JavaScript & DOM

What to Learn:

- HTML5 tags, forms, semantic layout

- CSS basics: selectors, flexbox, grid

- JavaScript: ES6+, DOM manipulation

Mini Project:

- Personal Portfolio Website

2. Frontend Development with React

What to Learn:

- Components, props, state, hooks

- JSX and rendering logic

Project:

- Task Manager App

3. Backend Development: Node.js & Express.js

What to Learn:

- Node.js basics, npm

- Express routing, middleware

- REST APIs

Project:

- Blog Backend API

4. Databases: MongoDB & PostgreSQL

What to Learn:

- NoSQL vs SQL basics

- Mongoose for MongoDB

- Prisma for PostgreSQL

Project:

- User Authentication System

5. Additional Libraries & Tools

What to Learn:

- Tailwind CSS

- Prisma ORM

- Postman, Git & GitHub

Project:

- Full Stack Notes App

6. Final Project Challenge

Build a Full Stack Job Board:

- React frontend

- Node + Express backend

- PostgreSQL + Prisma

- Authentication & deployment (Vercel + Render)