MERN Roadmap (Node.js + Express + React)

TOOLS YOU MUST INSTALL FIRST:

- Node.js (Latest LTS)

- VS Code

- Git

- Postman

- MongoDB Compass

- Chrome Browser

VS CODE EXTENSIONS:

- Prettier

- ES7+ React Snippets

- GitLens

- Tailwind CSS IntelliSense

JAVASCRIPT BASICS TO LEARN:

- Variables, functions, arrays, objects

- Arrow functions

- Spread operator

- Template literals

- Promises & async/await

- JSON

BEGINNER PROJECTS (JavaScript Only):

- Calculator

- Todo List

- Weather App

- API Projects

NODE.JS ROADMAP:

- Node modules

- FS, Path, Events

- npm usage

- Async programming

NODE PROJECTS:

- File Organizer CLI

- Notes Manager

- Student Management CLI

EXPRESS.JS ROADMAP:

- Servers, routing, middleware

- MVC pattern

- Query & params

- REST APIs

EXPRESS PROJECTS:

- Todo API

- Blog API

- URL Shortener

- Authentication API

MONGODB ROADMAP:

- CRUD

- Mongoose

- Relations

- Aggregations

REACT ROADMAP:

- JSX

- Components & props

- useState, useEffect

- Router

- Context API

- Custom Hooks

REACT PROJECTS:

- Todo App

- Weather App

- Movie Search App

FULL-STACK (MERN) PROJECTS:

- Todo (Full Stack)

- Notes App

- Blog App

- Authentication System

- E-commerce MERN App

90-DAY STUDY PLAN:

Month 1: JavaScript + Node

Month 2: Express + MongoDB

Month 3: React + Full Stack Integration