

# ded 12-Week Full-Stack Developer Roadmap (Odin + Fullstackopen + Codecademy)

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## Weeks 1-2: Modern Frontend Foundations

Main Resources:

- The Odin Project: Foundations
- (Optional) Codecademy: JavaScript Interactive Path

Topics:

- HTML5, CSS3 (Flexbox, Grid)
- JavaScript ES6+ (arrow functions, async/await)
- DOM Manipulation
- Git + GitHub basics

Project:

- Build a responsive portfolio site (deploy on GitHub Pages)

## Weeks 3-4: React Frontend

Main Resources:

- The Odin Project: JavaScript - React Module
- (Optional) Codecademy: React 18 Track

Topics:

- Components, props, state, hooks
- React Router, Axios, useEffect
- Component architecture

Project:

- Movie Search App using TMDB API

## **Weeks 5-6: Backend API with Node + MongoDB**

Main Resources:

- The Odin Project: NodeJS Module
- Postman for API testing

Topics:

- Express.js & Node.js
- MongoDB with Mongoose
- RESTful API principles (CRUD)
- JWT-based authentication

Project:

- Blog API (register/login, create/edit/delete posts)

## **Weeks 7-8: Fullstack App Integration**

Main Resources:

- Combine frontend + backend projects (Odin)
- Fullstackopen: Parts 3 & 4

Topics:

- JWT auth from frontend to backend
- CORS setup
- Global state with Context API

Project:

- Todo App with login, authentication, and persistent backend

## **Weeks 9-10: Advanced Backend**

Main Resources:

- Fullstackopen: Parts 5-7

Topics:

- Advanced routing & middleware
- Unit & integration testing (Jest, Supertest)
- Mongo vs relational DB concepts

Project:

- Advanced blog app with filtering, tests, and error handling

## **Weeks 11-12: DevOps, Deployment + Capstone**

Main Resources:

- Fullstackopen: Parts 8-10
- Deployment via Vercel/Netlify (frontend), Render/Railway (backend)

Topics:

- CI/CD pipelines (GitHub Actions)
- Docker basics
- TypeScript optional

Capstone Ideas:

- QuickHire: Job board with role-based access
- BookNook: Book review platform

- Projectify: Trello-style board/task manager

Deliverables:

- Live demo, GitHub repo, optional walkthrough video

## **Bonus Practice & Certifications**

- Frontend Mentor for layout and CSS challenges
- freeCodeCamp full-stack certification (optional)
- Codecademy SQL, testing, or extra React projects