

3 Month Full Stack Developer Course

Month 1 – UI/UX Design Foundations (Weeks 1–4)

- **Week 1:**
 - Introduction to UI/UX & design thinking
 - Key concepts: usability, accessibility, visual hierarchy
- **Week 2:**
 - Wireframing basics (low-fidelity sketches)
 - Tools: Figma / Adobe XD introduction
- **Week 3:**
 - Prototyping fundamentals (interactive wireframes)
 - Usability testing methods (heuristic evaluation, A/B testing)
- **Week 4:**
 - Accessibility best practices (WCAG)
 - Design → developer handoff (Figma Inspect, Zeplin)

Mini Project (End of Month 1): Interactive UI/UX prototype of a product website

Month 2 – Frontend Development (Weeks 5–8)

- **Week 5:**
 - HTML5 structure, semantic tags
 - CSS3 basics (selectors, box model, positioning)
- **Week 6:**
 - JavaScript ES6+ fundamentals (variables, loops, functions)
 - DOM manipulation & events
- **Week 7:**
 - React.js basics: components, props, JSX
 - State & hooks (useState, useEffect)
- **Week 8:**
 - Routing (React Router)
 - Forms & API fetching with Fetch/Axios

Mini Project (End of Month 2): Responsive React portfolio website

Month 3 – Backend Development & Full Stack Integration (Weeks 9–12)

- **Week 9:**
 - Node.js introduction & environment setup
 - Express.js basics (routes, middleware)
- **Week 10:**
 - REST API fundamentals (CRUD operations)
 - Postman testing
- **Week 11:**
 - Database integration (MongoDB / PostgreSQL)
 - Connecting backend API to React frontend
- **Week 12:**
 - Deployment (Netlify + Render/Heroku)
 - Project finalization & presentation.
 - Portfolio Development and Presentation Skills.

Capstone Project (End of Month 3): Full Stack Application (Blog, Task Manager, or E-commerce Lite)

6 Month UI/UX Course

Months 1-3: Core Concepts and Skills

Month 4 – Authentication & Advanced Backend (Weeks 13–16)

- **Week 13:** Authentication with JWT & OAuth
- **Week 14:** Middleware, validation & security
- **Week 15:** Error handling & logging best practices
- **Week 16:** Backend refactoring & performance optimization

Project: Authenticated user system (login, register, dashboard)

Month 5 – Advanced React & Deployment (Weeks 17–20)

- **Week 17:** State management with Redux / Context API
- **Week 18:** API consumption & error handling
- **Week 19:** Testing basics (Jest, Postman)
- **Week 20:** Deployment (Netlify, Vercel, Render, Heroku)

Mini Project: Full Stack E-commerce prototype

Month 6 – DevOps & Cloud (Weeks 21–24)

- **Week 21:** CI/CD pipelines (GitHub Actions)
- **Week 22:** Docker basics & containerization
- **Week 23:** Cloud hosting (AWS, Firebase)
- **Week 24:** Security best practices & scaling

Capstone Project: End-to-end deployed full stack app with authentication + cloud hosting

Month 7: Project Work Real Client or Industry Projects.

Month 8: Portfolio Development Showcasing Work, Presentation Techniques, and Feedback.

9 Month UI/UX Course

Months 1-6: Core Concepts and Skills

Month 7 – Advanced Frontend & Mobile (Weeks 25–28)

- **Week 25:** Advanced React (performance optimization, custom hooks)
- **Week 26:** Next.js (SSR & static generation)
- **Week 27:** UI frameworks (Tailwind, Material UI, Chakra UI)
- **Week 28:** React Native basics (cross-platform mobile apps)

Project: Cross-platform mobile app prototype

Month 8 – Advanced Backend & Microservices (Weeks 29–32)

- **Week 29:** GraphQL APIs (vs REST)
- **Week 30:** Microservices architecture (Node.js + Docker)
- **Week 31:** Real-time apps with WebSockets (chat, live updates)
- **Week 32:** Advanced DB concepts (indexing, optimization, caching)

Project: Real-time collaboration tool

Month 9 – Career Readiness & Enterprise Project (Weeks 33–36)

- **Week 33:** Agile/Scrum workflows (team project simulation)
- **Week 34:** System design (scalability, load balancing, caching)
- **Week 35:** Advanced testing (Cypress, automation)
- **Week 36:** Resume, LinkedIn, mock interviews, portfolio showcase

Final Capstone Project: Enterprise-level SaaS / Marketplace app (team-based, end-to-end)