web.dev Roadmap

ft.Elevate

Tasks	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Project Week
PHASE 1: THE OGs of WEB DEV	HTML Document Structure, Semantic HTML Elements, Forms & Input Types, Tables & Lists, HTML5 Features & Accessibility	CSS Fundamentals, Selectors & Specificity, Box Model & Positioning, CSS Layout Basics	Flexbox Mastery, CSS Grid Fundamentals, Responsive Design, CSS Animations, Advanced CSS Techniques, CSS Framework	JavaScript Introduction, Variables & Data Types, Functions & Scope	DOM Manipulation, Events & Event Handling, Arrays & Objects, Loops & Control Structures	Promises & Async/Await, ES6+ Features, Error Handling, Local Storage & APIs	Git Project Setup, GitHub Workflow	Project banao, using HTML,CSS,JS -> Showcase on LinkedIn -> MOVE TO NEXT PHASE
PHASE 2: Frontend Mastery	React Introduction & Setup, JSX & Components Fundamentals, Props & Component Communication, Event Handling in React	useState Hook Mastery, useEffect Hook & Lifecycle, Conditional Rendering, Lists & Keys in React,	React Forms & Controlled Components, Tailwind CSS Setup & Fundamentals, Tailwind Layout & Spacing, Tailwind Responsive Design	Tailwind Components & Utilities, Tailwind Animations & Transitions, React + Tailwind Integration, Dark Mode Implementation	Fetch API & Async JavaScript, React API Integration, Loading States & Error Handling, useEffect for Data Fetching	Context API & useContext, Advanced State Patterns, Performance Optimization, Project Planning & Architecture	Project using AI API, ex- AI Travel Planner, Personal Learning Assistant, Smart Resume Generator, Document Summarizer & Q&A	MAJOR PROJECT ex- Movie Database Explorer -> Showcase on LinkedIn -> MOVE TO NEXT PHASE
PHASE 3: BACKEND DEVELOPMENT	Node.js Introduction & Environment Setup, Core Node.js Modules (fs, path, os, http), NPM & Package Management; Asynchronous Programming (Callbacks, Promises), Event Loop & Non-blocking I/O	Express.js Setup & Basic Server, Routing & Route Parameters, Middleware Concepts & Implementation, Request/Response Handling,	MongoDB Setup & NoSQL Concepts, CRUD Operations & MongoDB Shell, Mongoose ODM Integration, Schema Design & Validation,	PostgreSQL Setup & SQL Fundamentals, Advanced SQL Queries & Joins, Database Indexing & Optimization, Sequelize ORM Integration,	Password Hashing & Bcrypt, JWT (JSON Web Tokens) Implementation, Session Management & Cookies, API Security Best Practices	Error Handling & Logging, API Documentation with Swagger, File Upload & Image Processing, Email Integration & Notifications,	Unit Testing with Jest, Integration Testing & API Testing, Environment Configuration, Performance Optimization,	Major Project: Social Media Backend API
Phase 4: FULL-STACK INTEGRATION	TypeScript Introduction & Setup, Type Annotations & Basic Types, Interfaces & Object Types, Functions & Generic Types, TypeScript with React Components,	Next.js 14+ App Router Setup, File-based Routing & Navigation, Pages vs App Router Comparison, Layouts & Route Groups	Server Components vs Client Components, Static Site Generation (SSG), Server-Side Rendering (SSR), Incremental Static Regeneration (ISR)	API Routes in App Router, Server Actions & Form Handling, Middleware & Edge Functions, Database Integration Patterns,	Authentication with NextAuth.js, Advanced State Management (Zustand/Redux), Real-time Features (WebSockets), File Upload & Image Optimization,	Testing React Components (Jest/RTL), E2E Testing with Playwright, Performance Optimization, SEO & Web Vitals,	Environment Configuration, CI/CD with GitHub Actions, Vercel Deployment & Analytics, Monitoring & Error Tracking	Week 8 Major Project: E-Commerce Platform
Phase 5: Deployment & Modern Tools	Vercel Advanced Features & Configuration, AWS Fundamentals & EC2 Setup, AWS S3, CloudFront & Static Hosting, Serverless Deployment (Lambda, Edge Functions),	GitHub Actions Advanced Workflows, GitLab CI/CD & Alternative Platforms, Docker Containerization, Infrastructure as Code (Terraform)	OpenAI API Advanced Integration,Google Gemini & Claude API Integration,AI Vector Databases (Pinecone, Supabase), AI Agent Development Patterns,	Performance Monitoring (Sentry, DataDog), Database Optimization & Scaling, CDN Configuration & Edge Computing, Security Best Practices & Compliance,	Real-time Communication (WebSockets, Pusher), Payment Integration (Stripe Advanced), Email/SMS Automation (SendGrid, Twilio), Analytics Integration (Mixpanel, Google Analytics),	Web3 Integration Basics, Progressive Web Apps (PWA), Micro-frontends Architecture, API Gateway & Microservices,	System Architecture Design, Scalability Planning	FINAL PROJECT - AI BUSINESS INTELLIGENCE SAAS