PROFESSIONAL FULL STACK & WORDPRESS DEVELOPER PROGRAM (BEGINNER TO EXPERT)

DURATION: 3 MONTHS (12 WEEKS) | MONDAY–THURSDAY, 1.5 HOURS/DAY



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PREREQUISITES

- Basic computer literacy
- English communication skills
- Logical thinking and problem-solving
- No prior coding experience required

COURSE FLOW BY PHASE AND WEEK 1

Phase 0: Foundation & Pre-Coding Essentials (Week 1)
Objective: Build a strong digital foundation for coding and web development.

Topics:

- Computer literacy: file management, OS basics, cloud storage
- Code editors: VS Code, Sublime Text, Atom, basic extensions
- Terminal & command line essentials
- Git & GitHub: version control, commits, branches, pull requests
- Collaboration tools: Slack, Trello, Notion
- Software development workflow & project planning

Practice:

- Initialize Git repositories, create branches, merge changes
- Organize files for projects
- Simulate mini team project workflow

PHASE 1: WORDPRESS FOUNDATIONS (WEEK 2)

Objective: Introduce CMS concepts for immediate, visible results.

Topics:

- WordPress basics: dashboard, posts, pages, media management
- Theme selection & customization, child themes
- Plugin installation & configuration, essential plugins (SEO, security, forms)
- Page builders: Gutenberg, Elementor
- WooCommerce basics for online stores
- Security measures, backups, performance optimization

Practice:

- Build a blog, portfolio, and small e-commerce website
- Set up website backups and security plugins
- Customize pages with Elementor/Gutenberg



PHASE 2: WEB DEVELOPMENT BASICS (WEEKS 3–4)

Objective: Teach front-end fundamentals and build responsive static websites.

Week 3:

- HTML: semantic tags, headings, paragraphs, lists, links, images, forms, tables
- CSS: styling, box model, layouts, fonts, colors, pseudo-classes, animations
- Responsive design: Flexbox, Grid, media queries
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Week 4:

- CSS frameworks: Bootstrap basics
- JavaScript fundamentals: variables, data types, loops, conditionals, functions, arrays
- DOM manipulation & events
- Browser DevTools: debugging JS and CSS
- Introduction to JSON for data handling

Practice:

- Build static and responsive pages
- Create interactive features using JS (e.g., menus, modals)

PHASE 3: ADVANCED FRONT-END & REACT (WEEKS 5–6)

Objective: Develop interactive, modern web apps using JS frameworks.

Week 5:

- JavaScript ES6+: arrow functions, template literals, destructuring, modules
- Asynchronous JS: promises, async/await, fetch API
- React.js: components, JSX, props, state, hooks (useState, useEffect)

Week 6:

- React Router for navigation
- State management: Redux basics
- Form handling and validation
- Animations, accessibility, and basic PWA concepts
- Component libraries: Material UI, Ant Design

Practice:

- Build a React-based dashboard and portfolio project

Consume external APIs (REST and GraphQL)

PHASE 4: BACK-END DEVELOPMENT & API INTEGRATION (WEEKS 7–8)

Objective: Teach server-side development, APIs, and authentication.

Week 7:

- Node.js fundamentals: modules, events, file system
- Express.js: servers, routing, middleware, templating engines (EJS, Pug)
- REST API creation: CRUD operations
- Error handling and logging

Week 8:

- Authentication & authorization: JWT, OAuth2, sessions, cookies
- GraphQL basics: queries, mutations
- File upload and download handling
- Environment variables and .env management

Practice:

- Build REST and GraphQL APIs integrated with front-end
- Implement user authentication and authorization

PHASE 5: DATABASES & DATA MANAGEMENT (WEEKS 9–10)

Objective: Manage relational and non-relational databases and integrate with back-end.

Week 9:

- SQL: MySQL/PostgreSQL basics, tables, primary/foreign keys, joins, transactions
- Advanced queries: aggregation, subqueries, indexing
- Data validation and constraints

Week 10:

- NoSQL: MongoDB basics, collections, documents, aggregation, indexing
- Integrating databases with Node.js/Express
- Data backup, migration, and performance optimization

Practice:

- Build full-stack applications with database integration

Optimize queries and database performance

PHASE 6: FULL-STACK INTEGRATION & WORDPRESS ADVANCED (WEEK 11)

Objective: Combine front-end, back-end, database, and WordPress skills.

Topics:

- Connect React front-end to REST APIs and GraphQL APIs
- Security: HTTPS, XSS, CSRF, CORS, input validation
- WordPress advanced: multisite setup, custom plugins, custom post types
- Performance optimization: caching, lazy loading, image optimization
- SEO fundamentals for websites

Practice:

- Mini full-stack projects integrating WordPress and custom apps
- Implement security and optimization techniques

PHASE 7: DEVOPS, DEPLOYMENT, TESTING & AGILE (WEEK 12)

Objective: Deploy professional apps, test them, and manage projects like real-world developers.

Topics:

- Git advanced workflows: branching strategies, pull requests, CI/CD basics
- Deployment: Heroku, Netlify, Vercel, AWS, FTP/SFTP
- Testing: unit testing (Jest, Pytest), integration, E2E testing (Cypress, Selenium)
- Debugging, performance profiling, and optimization
- Agile methodology, Scrum, team collaboration, project management tools

Practice:

- Deploy full-stack applications and WordPress sites live
- Test, debug, and optimize apps
- Mini Agile team projects for real-world experience

CAPSTONE PROJECTS & PORTFOLIO

Week 12 Practice:

- Full-stack application: React + Node.js + database + API integration
- Professional WordPress site: business, portfolio, or e-commerce
- Deploy projects live and optimize performance and security
- Complete portfolio with project documentation

CAPSTONE PROJECTS & PORTFOLIO

Outcome
By completion, learners will:

- Build professional front-end and back-end applications
- Integrate databases, APIs, and WordPress
- Deploy websites and full-stack apps securely and efficiently
- Test, debug, optimize performance, and apply Agile workflows
- Deliver portfolio-ready projects for employment or freelancing

Thanks:
Thank you for choosing WeDTC as your partner in developing world-class Full Stack and WordPress development skills. We are committed to your success, growth, and readiness to excel in the global digital and tech industry.

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