

Web Development Learning Path

Overview



Step by Step Path

Step 1: Learn Frontend Development

Technologies to Learn (in order)

1. HTML



Topics: HTML tags, Forms, Tables, Semantic HTML, Accessibility etc.

Resources: [HTML Tutorial for Beginners | Complete HTML with Notes & Code](#)

2. CSS



Topics: Selectors, Flexbox, Grid, Positioning, Responsive Design, Media Queries etc.

Resources: [CSS Tutorial for Beginners | Complete CSS with Project, Notes & Code](#)

3. JavaScript



Topics: Variables, Functions, Objects, Arrays, DOM Manipulation, Events, Async JS, Callbacks, Promises, Fetch API, Error Handling etc.

Resources: [JavaScript Tutorial \(2024\) for Beginners to Pro \(with Notes, Projects & ...](#)

[JavaScript Full Course ❤️ | Variables & Data Types | Lecture 1](#)

Apart from tutorials, for your first 2-3 months refer [MDN Docs](#), [Stack Overflow](#), Browser search & official Documentations.

Step 2: Practice Through Projects

Beginner Projects

- Calculator
- Tic Tac Toe
- Weather App
- To-do List
- Portfolio Website
- Landing Pages

Intermediate Projects

- Netflix Clone
- Razorpay Clone

- 99Acres Clone
- E-commerce Frontend [[Building AMAZON Clone for Beginners | Project using HTML & CSS](#)]
- Blogging UI

Full Stack Projects - Once backend is complete

- + Cover CSS Frameworks like Bootstrap , Tailwind CSS  tailwindcss.
- + Cover ReactJS, AngularJS, VueJS etc. once the backend is done.

Step 3: Learn CLI & Version Control

1. Terminal / CLI

Topics: Navigation, Creating files, Running programs, Installing packages etc.

2. Git & Github

Topics: Repository, Commit, Branch, Merge, Pull, Push

Resources: [Complete Git and GitHub Tutorial for Beginners](#)

Step 4: Learn Backend Development

Backend Options - Node.js, Django, Flask, Java, PHP (Laravel), .NET etc.

Topics: HTTP, APIs, Request - Response Cycle, Client vs Server, Express.js, Routing/ Dynamic Routing, Middleware, Authentication / Authorization, MVC Architecture, Template Engines, Errors / Exception Handling

Step 5: Learn Databases

Types of Databases

1. SQL (Relational) 
2. Examples
 - MySQL 
 - PostgreSQL 

Resources: [SQL - Complete Course in 3 Hours | SQL One Shot using MySQL](#)

3. NoSQL (Non-Relational)

Examples

- MongoDB  mongoDB

Step 6: Deployment

Platforms

Free

- Render  Render
- Vercel  Vercel

Cloud Platforms

- AWS 
- Azure 
- Google Cloud Platform (GCP) 
Google Cloud

Step 7: Build Resume-Worthy Projects

Each project should include:

- Frontend
- Backend
- Database
- Authentication
- APIs
- Deployment

Aim for:

- 5 - 6 meaningful features
- 1 - 2 weeks of development
- Real-world problem solving

Examples:

- Food Delivery
 - Expense Tracker
 - Chat Application
 - Live Streaming Platform etc.
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Final Step: Choose Your Specialization

Frontend Developer

Learn one framework deeply:

- React (most popular)  React
- Angular 
- Vue  Vue.js

Also understand backend fundamentals.

Backend Developer

Continue learning:

- Advanced APIs
- Authentication
- Databases
- Scalability
- Performance

Also explore (with time):

- **Docker & Containerization:** 
 Docker Tutorial for beginners - Complete One Shot
- Kubernetes  **kubernetes**
- CI/CD
- TypeScript
- Unit Testing
- Redis
- AWS / Azure

These skills become increasingly valuable as you gain professional experience.