WARRIORS WAY

Road Map to become
FULL STACK WEB DEVELOPER

① Foundation Skills

HTML & CSS
Master the building blocks of the web. Understand semantic HTML5 and modern CSS3 features for responsive design.

JavaScript (ES6+)
Gain a strong grasp of JavaScript, including ES6 syntax, promises, async/await, and modules.

② Version Control

Git
Learn Git for version control, GitHub for code sharing and collaboration, and understand the flow of Git operations like branching, merging, and pull requests.

③ Front-End Development

Responsive Design
Learn CSS frameworks like Bootstrap or Tailwind CSS, and master Flexbox and Grid.

JavaScript Frameworks/Libraries
Specialize in one or more modern frameworks like React (with Hooks and Context API), Vue.js, or Angular, understanding their ecosystems.

State Management
Learn state management libraries like Redux (for React), Vuex (for Vue), or services in Angular.

Build Tools
Familiarize yourself with Webpack, Babel, and NPM/Yarn.

④ Back-End Development

Server-Side Languages
Pick a primary language to focus on, such as Node.js (Express.js), Python (Django or Flask), Ruby (Ruby on Rails), or PHP (Laravel).

Databases
Learn both SQL (e.g., PostgreSQL, MySQL) and NoSQL (e.g., MongoDB) databases. Understand ORM (Object-Relational Mapping) concepts.

API Development
Gain proficiency in building RESTful APIs and GraphQL APIs.

Authentication/Authorization
Understand JWT, OAuth, and secure handling of user authentication and authorization.

⑤ DevOps & Deployment

Linux Basics
Understand basic Linux commands and operating environments.

Web Servers
Learn to configure and deploy to web servers (e.g., Nginx, Apache).

Cloud Services
Get familiar with AWS, Azure, or Google Cloud Platform for deployment, along with serverless architectures.

Containerization
Learn Docker for containerization and Kubernetes for orchestration

CI/CD
Set up continuous integration and continuous deployment pipelines using tools like Jenkins, Travis CI, or GitHub Actions.

⑥ Advanced Concepts & Scaling

Microservices Architecture
Understand the principles and benefits of a microservices architecture.

Web Security
Deepen your knowledge of web security best practices, HTTPS, CORS, CSP, and the OWASP top ten.

Performance Optimization
Learn techniques for optimizing web performance, both front-end (e.g., code splitting, lazy loading) and back-end (e.g., caching, database indexing).

#7 Real-World Experience

Personal Projects
Build and deploy several complex projects that showcase your full-stack capabilities.

Open Source Contribution
Contribute to open-source projects to gain experience, network, and improve your coding skills.

Internships/Work Experience
Gain professional experience through internships, freelancing, or full-time positions.

#8 Soft Skills & Continuous Learning

Problem-Solving Skills
Enhance your ability to solve complex problems through practice (e.g., coding challenges on platforms like LeetCode or HackerRank).

Communication & Collaboration
Improve your ability to work in a team, understand Agile and Scrum methodologies, and communicate effectively with both technical and non-technical stakeholders.

Stay Updated
Follow industry trends, blogs, podcasts, and attend webinars, workshops, and conferences. Web development is an ever-evolving field, and staying current is crucial.

#9 Portfolio & Networking

Build a Portfolio
Create a professional portfolio website showcasing your projects, resume, and skills.

Networking
Engage with the community through social media, local meetups, and technology conferences. LinkedIn can be particularly valuable for professional networking.