



Front-end

Internet

- How does the internet work? ✓
- What is HTTP? ✓
- What is Domain Name? ✓
- What is hosting? ✓
- DNS and how it works? ✓
- Browsers and how they work? ✓

HTML

- Learn the basics ✓
- Writing Semantic HTML ✓
- Forms and Validations ✓
- Accessibility ✓
- SEO Basics ⚪

CSS

- Learn the basics ✓
- Making Layouts ✓
- Responsive Design ✓

JavaScript

- Learn the Basics ✓
- Learn DOM Manipulation ✓
- Fetch API / Ajax (XHR) ✓

Version Control Systems

VCS Hosting

- Git ✓
- GitHub ✓
- GitLab ✓
- Bitbucket ✓
- npm ✓
- pnpm ✓
- yarn ✓

React

Vue.js

Angular

CSS Architecture

BEM

Writing CSS

- Tailwind ✓
- Radix UI ✓
- Shadcn UI ✓

Pick a Framework

- Svelte ✓
- Solid JS ✓
- Qwik ✓

Package Managers

- Vercel ✓
- Webpack ✓
- Webpack ✓
- Rollup ✓
- Babel ✓

CSS Preprocessors

- Sass ✓
- PostCSS ✓

Build Tools

Module Bundlers

Task Runners

Linters and Formatters

- npm scripts ✓
- Prettier ✓
- ESLint ✓

Authentication Strategies

JWT, OAuth, SSO, Basic Auth, Session,

Testing your Apps

- Vitest ✓
- Jest ✓
- Playwright ✓
- Cypress ✓

Web Security Basics

- CORS ✓
- HTTPS ✓
- Content Security Policy ✓
- OWASP Security Risks ✓

Learn the difference between Unit, Integration, and Functional tests and learn how to write them with the tools listed on the right.

Web Components

- HTML Templates ✓
- Custom Elements ✓
- Shadow DOM ✓

Type Checkers

- TypeScript ✓

Server Side Rendering (SSR)

GraphQL

- Apollo ✓
- Relay Modern ✓

Static Site Generators

- Next.JS ✓

- Storage
 - Web Sockets
 - Server Sent Events
 - Service Workers
 - Location
 - Notifications
 - Device Orientation
 - Payments
 - Credentials
- Learn different Web APIs used in PWAs

- PRPL Pattern
- RAIL Model
- Performance Metrics
- Using Lighthouse
- Using DevTools
- Calculating, Measuring and improving performance
- Performance Best Practices

Progressive Web Apps