

DDT _ Data Dose Tech

Front End Content

- Stage 1: Web Fundamentals (HTML & CSS)
- 1. Advanced HTML5
 - Semantic HTML (<header>, <nav>, <article>, <section>)
 - Forms (data input, validation using HTML5 attributes)
 - Multimedia (video, audio, Canvas API)
 - SEO Basics (using meta tags, structured data)
- 2. Advanced CSS3
 - Flexbox & Grid Layout (building complex layouts)
 - Animations & Transitions (keyframes, transformations)
 - Responsive Design (mobile-first, media queries, viewport units)
 - SCSS Architectures (BEM, SMACSS)
 - Q Preprocessors (SASS/SCSS)
- **% 3. Frontend Developer Tools**
 - VS Code + Extensions (Emmet, Live Server)
 - . P Chrome DevTools (debugging, performance analysis)

- Stage 2: JavaScript (From Basics to Advanced)
- 1. JavaScript ES6+
 - Wariables (let, const), Arrow Functions
 - III Arrays & Objects (destructuring, spread operator)

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 ☐ Async JS (callbacks, promises, async/await, Fetch API)

🗱 2. Advanced JavaScript

- ES6 Modules (import/export)
- Obsign Patterns (Module, Singleton, Observer)
- Error Handling (try/catch, custom errors)
- Web APIs (LocalStorage, Geolocation, Fetch)
- 3. TypeScript (Optional for large-scale projects)
 - Propes, Interfaces, Generics
 - Integration with React
- Stage 3: React.js (From Zero to Pro)
- **1. React Basics**
 - Section Components (functional, class)
 - State & Props (useState, useEffect)
 - Neact Router (SPA navigation)
 - <u>é</u> Forms (controlled components, Formik)

💋 2. Advanced React

- . (iii) Context API + useContext
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 Custom Hooks
- Performance Optimization (React.memo, useCallback)

% 3. Practical Projects

- Todo App (state management)
- \(\mathbb{G} \) E-commerce Frontend (API integration)
- . III Dashboard with Charts (React + D3.js)

Stage 4: Essential Tools & Add-ons

- Testing: Jest + React Testing Library
- Styling: CSS Modules, Styled-Components, Tailwind CSS
- Ø Deployment: Vercel, Netlify, GitHub Pages

Resources

Eloquent JavaScript, MDN Web Docs freeCodeCamp fraversy Media