



ROADMAP FOR FRONTEND DEVELOPER



React

React is a free and open-source front-end JavaScript library for building user interfaces based on components. It is maintained by Meta and a community of individual developers and companies.



Javascript

The most difficult "front-end" language is Javascript. Start by learning the basics and move to JQuery. JS helps to control page behavior and interactivity.



Bootstrap

The next step is to learn a CSS framework like Bootstrap 4. It is great practice for moving on to Javascript/JQuery and it helps improve CSS skills.



CSS 3

CSS is the next step in the education process. It extends HTML by allowing for styling, presentation, fonts, and layout. It is essential to learn CSS on top of HTML.



HTML 5

Every front end developer must start by learning HTML (hyper text markup language). This is the backbone of everything on the web.



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ROADMAP FOR FRONTEND DEVELOPER

HTML Fundamentals



- !DOCTYPE
- Block & Inline elements
- Tags & Attributes
- Head & Title
- Imports (script, style...)
- Headings
- Tables
- Anchors & navigation
- Lists (unordered + ordered)
- Forms & Input types
- Events basics
- Images
- Semantic HTML
- Local & Session storage

CSS Fundamentals



- Selectors
 - basic
 - combinational
- Psuedo
 - selectors
 - elements
- Specificity
- Inheritance
- Box model
- Fonts & Typography
- Colors
- Positioning
- Units (absolute + relative)
- Overflow
- Float

JavaScript Fundamentals



- Primitives
- Scopes & Hoisting
- Closures
- Execution context
- Variables (var, let, const)
- Operators
- Type Conversions
- Arrays + methods
- Objects + methods
- Functions + Arrow functions
- Try Catch & Error handling
- Strict mode
- Timeout & Interval
- Classes

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Data Structure & Algorithms

Advance System
Design (LLD + HLD)



Advanced Data
Science & Machine Learning

MERN Full Stack
Development



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ROADMAP FOR FRONTEND DEVELOPER

HTML Advanced



- Meta tags
- Search Engine Optimization
- Responsive images
- Multimedia
 - Audio
 - Video
- SVG animations
- Web Components
- IndexedDB
- iFrame
- Canvas
- WebGL
- Workers
 - web worker
 - service worker
 - shared worker

CSS Advanced



- Shadows
- Gradients
- Background images
- Masking & blending
- CSS functions
- Media Queries
- Transforms
- Transitions
- Animations
- Flex advanced
- CSS Grids
- CSS sprites
- CSS variables & counters
- Container queries
- Subgrid
- BEM standards
- Responsive web design

JavaScript Advanced



- "this" keyword
- Template strings
- De-structuring
- Rest & Spread
- Callbacks
- Promises
- Async Await
- Prototypes
- Modules
- Sets & Weaksets
- Maps & Weakmaps
- Regular expressions
- Symbols
- Proxy & Reflect
- Iterators + Generators
- Dates & Intl
- Typed Arrays

Web Fundamentals



- Client Server architecture
- HTTP
- RESTful web services
- Communication
 - Polling
 - Web sockets
- XML & JSON
- HTTPs & SSL
- Authentications
- Cookies & Sessions
- Security
 - XSS
 - CORS
 - CSP
- Caching & compression
- HTTP 2.0



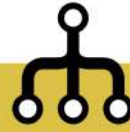
ROADMAP FOR FRONTEND DEVELOPER

Version Control



- Git and Github
- Clone
- Pull & Fetch
- Commit
- Log
- Push
- Reset
- Restore
- Switch & Checkout
- Branching
 - Merge
 - Rebase
 - Workflow
- Cherry pick
- Stash
- Squash
- Revert

BOM & DOM



- DOM Tree
- Accessing DOM
- Node creation & deletion
- Element selectors
- Events handling
- Events listeners
- Event bubbling & delegation
- Iterating Nodelist
- Attribute manipulation
- AJAX & Fetch
- Event Loop
- Shadow DOM
- CSSOM
- Critical Rendering Path
- Browser APIs
- Browser Internals

JavaScript Advanced



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ROADMAP FOR FRONTEND DEVELOPER

React



- Components & JSX
- State & Props
- Class components & life cycle
- Functional components
- Hooks
 - useState
 - useEffect
 - useRef
- Render props
- Forward refs
- Event handling
- Forms
- React.lazy
- Context API
- Higher order components
- Advanced & Custom hooks
- Portals
- Error boundaries



React Ecosystem

- Zustand / Redux
- React Router
- Styled Components / Emotion
- Material React
- React Hook Form
- Axios
- Tanstack Query
- Framer Motion
- React intl
- Jest
- React Testing Library
- GraphQL
- Apollo client
- NextJS



Frontend Concept

- Progressive Web App
- Object Oriented Programming
- Functional Programming
- Reactive Programming
- Test Driven Development
- Accessibility & Usability
- Web Performance
- CSR, SSR, SSG, ISR
- Web Security
- Design patterns
- JAM Stack
- Micro frontend
- User Experience
- CI/CD
- Web Assembly
- Web 3.0

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