

SLEEPLESS YOGI'S

# Web Developer Handbook



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# WEB DEVELOPMENT

## Must Know Concepts

### JAVASCRIPT

- Const vs Let vs Var
- Hoisting
- "this" in JS
- Closures
- map-reduce-filter
- Promises

### HTML N CSS

- Semantic HTML
- HTML5 Storage mechanism
- Box Model
- CSS Selectors
- Media Queries- Flexbox

### REACTJS

- JSX
- Components
- State and props
- Render props
- React hooks
- Memoization

### TYPESCRIPT

- Class inheritance
- Interfaces
- Enums
- Type assertions
- Generics

### WEB DEV MISC.

- HTTP
- Web services
- REST API
- Web performance
- Web workers
- Web security

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# Learning Websites



Udemy



Javascript.info



Freecodecamp



Codecademy



Coursera



W3 schools



Tutsplus



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# Books



Responsive Web Design with HTML5 and CSS



Exploring ES2016 and ES2017



The Clean Coder



Eloquent JavaScript



Scalable and Modular Architecture for CSS



JavaScript: The Good Parts



HTML To React: The Ultimate Guide



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# Project Ideas

### CALCULATORS

- Simple math calculator
- Compound interest calculator
- Trigonometry calculator

### RANDOM MOTIVATIONAL QUOTE

- Single page application
- Show quote for the day
- Change quote every single day
- Pull quote from a JSON file

### CURRENCY CONVERTOR

- Use <https://free.currencyconverterapi.com/> API
- Or simply hard code the formulae
- Deploy chrome extension of your app

### DIGITAL CLOCK

- Hours, Minutes, Seconds
- Implement timer
- Implement stop watch

### RANDOM YOUTUBE VIDEO PLAYER

- Connect to YouTube or other video streaming API
- Get random video on a button click
- Play the video
- Like the video

### IMAGE CAROUSAL / SLIDER

- Show left/right buttons to change the images
- Have a timer to change the images after X seconds
- Pull images from a folder or from CDN

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# Interview Questions

Explain what is CORS? How does it work?

How will you reduce page load time?

In HTML explain difference between `<div>` and `<frame>`?

What is closure and it's working in JavaScript

Explain API in layman's terms

Explain big-O notation in the simplest terms.

How does XSS attack work?

What is the difference between ID and Class selector?

Difference between "null" and "undefined"

How will you implement a modal component?

What is Webpack and it's uses?

Why do you need TypeScript?



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# Top Tech Companies

- Google
- Spotify
- Facebook
- Microsoft
- Netflix
- Amazon
- Twitter
- Apple
- Adobe
- Zoom



# HIGHLY RECOMMENDED BOOK BY EXPERTS



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