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React.js interview questions and answers for 2024

Looking for a job that requires you to have knowledge of React.js interview questions? Or, looking to hire candidates who would be well-versed with React.js interview questions? You are in the right place. As a contender for React.js developer jobs or as a seasoned recruiter, you will find this carefully curated list of React.js interview questions and answers handy. We hope that the time you spend on this page will take you a step closer to your dream job or your dream candidate.

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end web development technology. This highlights why there is a continuous demand for qualified developers well-versed in Facebook's prominent JavaScript library. Similarly, there are a lot of contenders abreast of the same and looking to work as [ReactJS developers](#) for elite companies.

No matter if you are a seasoned recruiter or a contender for ReactJS, we have got you covered with our comprehensive list of the latest ReactJS interview questions.

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BASIC REACTJS INTERVIEW QUESTIONS AND ANSWERS

1. What is React?

[Hide Answer](#)

It is an open-source front-end JavaScript library most popular for single-page web applications. It is helpful when interactive and complex UIs are built for websites or mobile apps. React.js was released for use in 2015 and since then it has become one of the most trusted and used technologies of recent time. It has built one of the largest developer communities around itself.

2. List some of React.js' features.

[Hide Answer](#)

Important features of React.js include:

- Instead of a real DOM, there is Virtual DOM
- It completely renders the HTML files on the server into client HTML pages, in other words, server-side rendering

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3. What are the main advantages of React.js?

[Hide Answer](#)

The main advantages of React.js are:

- It enhances the performance of the application
- It can be used from the client-side as well as the server-side
- The readability of code is higher in React.js because of JSX
- It offers easy integration with frameworks such as Angular, Meteor, etc.
- It is easy to write UI test cases with React.js

If you can include some practical experience demonstrating the advantages of React.js in this React.js interview question, you are likely to impress the recruiter.

4. What is JSX?

[Hide Answer](#)

JSX is the syntax extension for Javascript in React.js. With the help of JSX, it is easy to define how the user interface should look. Additionally, with JSX, the file containing the Javascript code can be used to write the HTML structures as well.

5. Describe an event in React.js?

[Hide Answer](#)

When a user presses a key, clicks the mouse, or performs any action on the machine or when the machine itself triggers an action, these actions are registered as events in React.js.

- In React.js, we use camelCase to name events, instead of the lowercase in HTML

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6. How do lists work in React.js?

[Hide Answer](#)

Lists in React.js are created similar to how they are created in regular Javascript. With lists, data can be displayed in an orderly manner and is useful in displaying menus on websites. For traversing lists, the `map()` function is used. For example,

- An array of numbers is taken by the `map()` function and their value is multiplied by 5
- `var numbers = [2,4,6,8,10]`
- `const multiplyNums = numbers.map((number => {
 return (number*5);
}));`
- `console.log (multiplyNums);`

Output: The output in Javascript will be logged in the console. The output in the above case is `[10, 20, 30, 40, 50]`

7. Why are keys used in React.js Lists?

[Hide Answer](#)

Keys are used in React.js Lists because:

- Key helps in identifying what objects have been altered, moved, or deleted from lists
- With the help of keys, it is easier to determine which objects must be re-rendered instead of all components being re-rendered all the time.

React.js interview questions that ask about the use of a certain function or component in React.js programming are common.

8. Is HTML used in React?

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9. What is the release date of React?

[Hide Answer](#)

March 2013

10. Can you tell two downsides of React?

[Hide Answer](#)

It is difficult to integrate with an MVC framework like Rails. Also, users need to have the knowledge about integrating user interface into MVC framework.

11. Can you outline the differences between Real DOM and Virtual DOM?

[Hide Answer](#)

Real DOM and Virtual DOM differ in following ways:

Real Dom	Virtual Dom
Updates slowly	Updates faster
HTML can directly update	Can't be updated directly
Memory waste	Less memory consumption

12. Explain Flux Concept In React.

[Hide Answer](#)

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13. What is Redux in React?

[Hide Answer](#)

An open-source JavaScript library for front-end development and acts as a container for JavaScript applications that is used for the applications state management.

14. Explain the 'Store' feature.

[Hide Answer](#)

It is a feature of Redux that allows the application to save the entire State at one place. This allows you to get regular updates from the store directly.

15. What is a high order component in React?

[Hide Answer](#)

It is an advanced-level technique in React for reusing component logic.

16. What is the Presentational segment?

[Hide Answer](#)

It is a component in React that just renders HTML and its only function is presentation markup.

17. Explain Props in ReactJS.

[Hide Answer](#)

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18. What does super keyword mean in React?

[Hide Answer](#)

It is used to call super or parent class.

19. What is yield catchphrase in JavaScript?

[Hide Answer](#)

It is used to delay and resume a generator work.

20. List the two types of React component.

[Hide Answer](#)

Two types of React component are as follows:

- Function component
 - Class component
-

21. What is a synthetic event in ReactJS?

[Hide Answer](#)

It is an object that serves as a cross browser wrapper of the browser's native event.

22. In Redux, what is an action?

[Hide Answer](#)

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23. What are stateless components?

[Hide Answer](#)

They are pure functions with no render method.

24. What is React Router?

[Hide Answer](#)

It is a library for routing in React.

25. Can you list some animation packages in React?

[Hide Answer](#)

Some animation packages are as follows:

- React Motion
 - React Transition Group
 - React Spring
-

26. Explain Jest.

[Hide Answer](#)

Jest is a [JavaScript framework](#) created by Facebook and is based on Jasmine. Its feature-rich API helps to get results quickly.

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It is the central hub of data flow in a Flux application that acts as a directory of callbacks.

28. Explain the callback function.

[Hide Answer](#)

It is called when `setState()` has finished. A state can be updated in response to prop changes or server response using `setState()` method. The main purpose is to prevent a component from re-rendering.

29. Explain React State.

[Hide Answer](#)

It is an object which stores the component's property values. Also, it decides how the component renders and behaves.

30. Can a State be updated in ReactJS?

[Hide Answer](#)

Yes, it can be updated directly or indirectly. To implement this one can use either this. `setState` function or the `updater` function.

31. What is the use of arrow function in React?

[Hide Answer](#)

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us

[Hide Answer](#)

The steps are as follows:

- Initialization
- State/Property updates
- Destruction

33. What are React portals?

[Hide Answer](#)

They are used to render an element outside its hierarchy using `CreatePortalMethod`. Hence they allow developers to render outside the hierarchy tree.

34. Explain Context.

[Hide Answer](#)

React Context is a way to share data globally between React components. It achieved this by passing props from parent to child and storing them in a store. Thus child component(s) can use these props through the store.

35. What is the use of Webpack?

[Hide Answer](#)

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36. What is Babel?

[Hide Answer](#)

It is an open-source JavaScript compiler that converts the latest JavaScript versions to old ones.

37. How are ReactJS and React Native different?

[Hide Answer](#)

Where ReactJS is a front end open-source JavaScript library for UIs, React Native is an open-source mobile framework for platforms such as Android and iOS.

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INTERMEDIATE REACTJS INTERVIEW QUESTIONS AND ANSWERS

1. How do browsers read JSX files?

[Hide Answer](#)

As JSX is a combination of HTML and JavaScript, browsers are unable to read it. And hence a transpiler is needed to convert JSX to Javascript so that browsers can understand.

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By using reference rather than using displayName because it provides a clear and concise name for the component.

3. Mention one difference between Props and State.

[Hide Answer](#)

State is mutable while Props are immutable. This means that the state is internal and managed by the component while props are external and managed by anything that renders the component.

4. What are pure components in ReactJS?

[Hide Answer](#)

A React component is considered to be pure if it produces the same output when given the same set of state and props.

5. What is 'create-React-app'?

[Hide Answer](#)

It provides a development environment for creating React applications using the JavaScript features as it creates a basic setup for the application without requiring to configure everything. It is very helpful in building a single-page application in React.

6. What does 'key' do in React list?

[Hide Answer](#)

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7. Explain children's prop.

[Hide Answer](#)

Children prop are used to pass data from the parent component to the children component.

8. What are error boundaries?

[Hide Answer](#)

They help catch errors in child components, log the error and show fallback UI.

9. Why will you use empty tags `<>` `</>`?

[Hide Answer](#)

To declare fragments

10. Tell us about strict mode.

[Hide Answer](#)

It highlights any potential problems in the application. It achieves this by encapsulating a section of your application as a component. While it does not show any visible element in the development mode (does not impact the performance in the production mode as well), it does give warnings.

11. What is React Fiber?

[Hide Answer](#)

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12. Can you differentiate between `createElement` and `cloneElement`?

[Hide Answer](#)

`createElement` creates a new element and returns it, while `CloneElement` clones an existing element and returns a new element.

13. Explain Lifting State Up in React.

[Hide Answer](#)

When multiple components need to share the same data, it is advised to lift the shared state up to their parent. This means when two child components share the same data from their parent, the state is lifted up to the parent instead of the child components.

14. Explain stateful components.

[Hide Answer](#)

If the behavior of the component holds dependency on the state of the component, we term it as a stateful component.

15. Tell me, how will you memoize a component in React?

[Hide Answer](#)

We can memoize a component in React using memoization libraries.

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```
//Create a component
const MyComponent = (props) => {
  return <div>{props.value}</div>;
};

//Memoize the component
const MemoizedComponent = React.memo(MyComponent);

//Use the memoized component
<MemoizedComponent value={1} />
```

16. How to use production mode in React?

[Hide Answer](#)

It can be used through Webpack's DefinePlugin method to set NODE_ENV to production that takes out propTypes validation and extra warnings.

17. Explain switching components.

[Hide Answer](#)

It is a component that renders one of many components. For this you need to use object to map prop values to components. Basically, it allows the user to turn the setting on or off.

18. How will you update props in React?

[Hide Answer](#)

It is not possible as we can't update props in ReactJS as they are read-only.

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It is a process by which arrays are extracted.

20. Can the values of props be updated?

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No, as props are immutable and top-down. This signifies that parent can transmit prop values to a child but the latter can't modify them.

21. Can I use web components in React application?

[Hide Answer](#)

Yes, you can. While it is not used by many developers, it is required when using third-party UI components.

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ADVANCED REACTJS INTERVIEW QUESTIONS AND ANSWERS

1. Why is 'prop-types' library used?

[Hide Answer](#)

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[Hide Answer](#)

Through React hooks, you don't have to write a class to use State and some other React features

3. What do you know about Controlled Components?

[Hide Answer](#)

They control the input elements which means the form's data is managed by the component's state. It takes its value through props and makes alterations through callbacks.

4. What are refs?

[Hide Answer](#)

They are an attribute of DOM elements. It is a function provided by React to access these elements. You might want to use them in case when you want to change the value of a child component without use of props.

5. What can you do to spill the reducers?

[Hide Answer](#)

We can use event actions.

6. How do you implement routing in ReactJS?

[Hide Answer](#)

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us

7. Can you attach a JSX element to other JSX components?

[Hide Answer](#)

Yes, you can add JSX elements to other JSX components.

8. With pure components, what is the issue of using render props?

[Hide Answer](#)

When creating a function inside the render method, it negates the performance of the pure component.

9. Explain the windowing technique.

[Hide Answer](#)

It is a technique that furnishes only a small number of rows at any given time. This reduces the time to re-render not only the elements but also the DOM nodes.

10. How can you fetch data with React Hooks?

[Hide Answer](#)

We can use `useEffect` that fetches the data through `axios` from the API.

11. What is Formik?

[Hide Answer](#)

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Redux?

[Hide Answer](#)

Redux Promise, Redux Saga Redux Thunk

13. Can browsers understand JSX code? Explain.

[Hide Answer](#)

No. A transpiler is needed to convert JSX to JavaScript. Web browsers are built to understand and read original JavaScript or JS objects. Since JSX is not a regular JS object, web browsers are unable to read it. For web browsers to read JSX, it must be made compatible by first converting it into regular JS objects. This is achieved by using a transcompiler, such as Babel. While this may seem like a simple ReactJS interview question, knowing answers to such questions can be critical.

14. What is one-way data flow in React?

[Hide Answer](#)

React uses unidirectional data flow which means you can transfer data from parent to child and not the other way around.

15. Explain Concurrent Rendering.

[Hide Answer](#)

Concurrent rendering is a feature of React that enables components to render, update, and respond to user input simultaneously.

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They both are the same. Earlier concurrent mode was referred to as "Async Mode".

17. Can JavaScript urls be used in React 16.9?

[Hide Answer](#)

Yes, but it will give a warning in the console.

```
const companyProfile = {  
  website: "javascript: alert('Your company website is hacked')",  
};  
// It will log a warning  
<a href={companyProfile.website}>Find more details</a>
```

18. Tell us about React Server components.

[Hide Answer](#)

It is a way to build applications that cover the benefits of both the server and client side.

19. What is prop drilling?

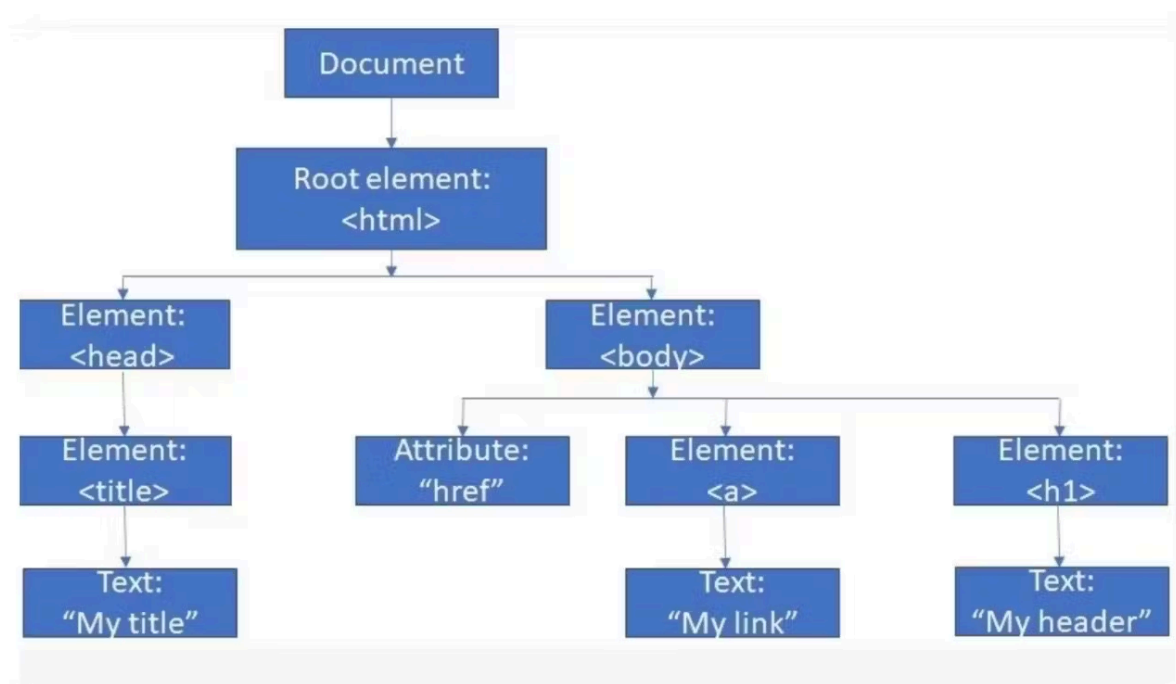
[Hide Answer](#)

It is a situation where the same data is sent at every interdependent level until it reaches the final level.

20. What is virtual DOM?

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us

each tree branch, with every tree node containing one or more objects.



In ReactJS, a lighter version of real DOM is stored in the memory. It is called the Virtual DOM. When there are any changes in specific objects, instead of updating all objects, only those specific changes are updated in the real DOM. This increases the efficiency and speed of the program. For a ReactJS interview question like this, if you have the opportunity to illustrate through a diagram, you must, as it shows the depth of your understanding.

21. Why do we use keys in Lists?

[Hide Answer](#)

The main reason why we use keys in lists are as follows

- It is an identifier to find which items have changed, updated, or deleted from lists
- Find out which items need to be re-rendered

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React forms allow users to interact with web applications. They help users to enter the information when required. They contain buttons, text fields, checkboxes, etc.

23. What are the components in React?

[Hide Answer](#)

In a React application, they are independent and reusable bits of code that can be processed separately. A single app may therefore contain multiple components.

24. Tell us about MobX.

[Hide Answer](#)

It is a simple, scalable, and battle-tested state management solution. It is based on Reactive programming principles.

To use it, the following packages need to be installed

```
npm install mobx --save
```

```
npm install mobx-react --save
```

25. How is an application created using ReactJS?

[Hide Answer](#)

We can use the following steps:

- Install the ReactJS app on the machine as the ReactJS library installation requires npm. This is because npm or node package manager has several JavaScript libraries including ReactJS
- Install Sublime text or any text editor similar to it.

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running npm start

- Set up the component structure and define what components – functional or classes – you will use for your application
- Set up the back-end structure with Ruby-on-Rails API
- Define the App component that will contain two child components – MainContainer and Nav
- Set up the Nav component
- Set up the CreateCard component in the controlled form to then set up the MainContainer component as a class component
- Create a fetch request to the back-end using ReactJS's component lifecycle methods
- Set up the ToDoCardContainer component to render all the ToDoCard components
- Render the cards with the ToDoCard component
- Create lists using the addList callback function
- Render lists for appropriate cards by rendering the ToDoList component
- Click on the list item to check it off once it is completed

Be sure to mention all points in detail for such a ReactJS interview question.

26. What is the use of eslint plugin for hooks?

[Hide Answer](#)

It enforces the Rules of Hooks. Precisely, it is a static code analysis tool for finding out faulty patterns in JavaScript code.

27. What are React Dev Tools?

[Hide Answer](#)

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28. Why would you do it if DevTools does not load in Chrome for local files?

[Hide Answer](#)

On opening a local HTML file in your browser, you must first open Chrome Extensions and check Allow access to file URLs.

29. Tell me some advantages of React over VueJS.

[Hide Answer](#)

[React is better than Vue](#) for following reasons

- Easy to test
 - Suitable for mobile apps
 - More flexible
-

30. What is render hijacking in React?

[Hide Answer](#)

It is the ability to control what one component will output from another component. Here you wrap a component with a higher order component.

31. How can you pass numbers to the React component?

[Hide Answer](#)

You can pass numbers to React components using curly braces({}) where as strings in quotes

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32. Explain React memo function.

[Hide Answer](#)

Using PureComponent or shouldComponentUpdate you can restrict class components from re-rendering when input properties are the same. You can do the same with the React memo function.

```
const MyComponent = React.memo(function MyComponent(props) {  
  /* This only rerenders if there is change in props */  
});
```

33. Tell me some benefits of React Router V4.

[Hide Answer](#)

Below are the main benefits of React Router V4 module,

- Provides declarative routing using components
- No need to manually set history
- Reduced application size

34. How uncaught errors behave in React 16?

[Hide Answer](#)

It results in unmounting of the entire React component tree.

35. What are default props?

[Hide Answer](#)

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```
class MyButton extends React.Component {  
  // ...  
}  
  
MyButton.defaultProps = {  
  color: 'blue'  
};
```

36. What browser React applications support?

[Hide Answer](#)

It supports all popular browsers including Internet Explorer 9 and above. However, it can support old browsers as well through polyfills.

37. Is it necessary for keys to be globally unique?

[Hide Answer](#)

While you can use the same keys for two different arrays, they don't need to be globally unique.

38. What methods are invoked during error handling?

[Hide Answer](#)

```
static getDerivedStateFromError()  
componentDidCatch()
```

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The `unmountComponentAtNode` method in React is used to unmount a React component from the DOM and clean up its event handlers and state. This method is often used when cleaning up the DOM after a React component has been removed or replaced.

40. On what condition, do component props defaults to true?

[Hide Answer](#)

When you pass no value for a prop.

For example, these two are equivalent,

```
<MyInput autocomplete />
```

```
<MyInput autocomplete={true} />
```

41. How will you build a search filter using React?

[Hide Answer](#)

You can build a search filter using following steps:

- First declare React states for input values.
- For entering the search term, create HTML input state
- Now, on Change function update state
- Add Array filter `()` to list of items with search term value

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A simple counter can be created using following steps:

- First, create a React state that can store the count value.
 - Then declare JS functions to increment or decrement the value using `setState()`.
 - Finally add HTML buttons with `onClick` to JSX code.
-

43. How can you display a list in React?

[Hide Answer](#)

A list can be created by:

- First, declare a list of items using JS Array.
 - Now to access each item use `Array.map()`
 - Finally, return JSX code for each item
-

44. How will you create an Image Slider using ReactJS?

[Hide Answer](#)

- Create an array of objects that contain an id and image URL.
 - To enable pre/next functionality, we decrease or increase the index value of the currently active image.
 - Finally update the active image index using the clicked option.
-

45. What are the steps to add Font Awesome icons in React?

[Hide Answer](#)

Install font-awesome:

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Import font-awesome in your index.js file:

```
import 'font-awesome/css/font-awesome.min.css'
```

Add Font Awesome classes in className:

```
render() {  
  return <div><i className={'spin'} /></div>  
}
```

46. How will you use TypeScript in create-React-app applications?

[Hide Answer](#)

There is built-in support. You just have to pass --typescript option,
npx create-React-app my-app --typescript

47. Can the statics object work with ES6 classes?

[Hide Answer](#)

No, it works only with React.createClass():

48. How will you make Redux Form initialValues get updated from state?

[Hide Answer](#)

For this, we use enableReinitialize : true setting.

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WRAPPING UP

With the above list, we have tried to present some trending [ReactJS interview questions](#) that not only help scrutinize the [right candidate](#) but also help contenders crack the right interview.

With this exhaustive list, we have tried to cover most, if not all, of the basic, intermediate and advanced level [React interview questions](#) and answers. However, if you want to skip this process and have hours of your hiring time, you can opt for Turing which helps you source, vet, match, and manage the world's best software developers remotely. Conversely, if you are a developer, and are looking for a [ReactJS job in elite US companies](#), the Turing test is for you!

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