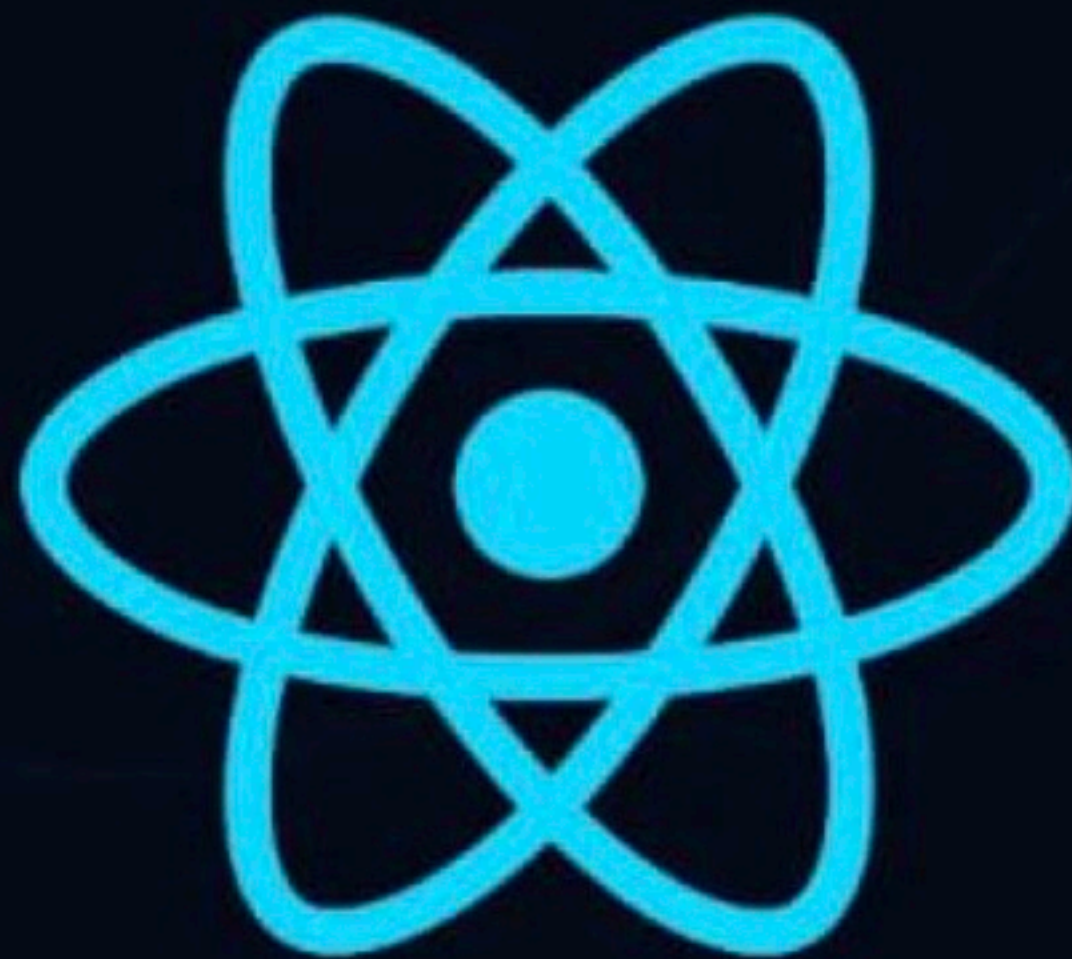


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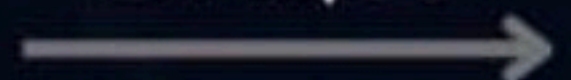
# ReactJs Roadmap

you should follow



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# Prerequisites

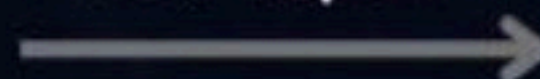
- JavaScript Fundamentals:
- Variables, Constants, and Data Types
- Functions and Scoping
- Loops and Iteration
- Events
- Array Methods
- ES6+ Features (Arrow Functions, Promises, Async Await, Destructuring, Spread/Rest Operator)
- HTML & CSS Fundamentals:
- Basic Tag Structure
- Styling (Classes, IDs)
- Flexbox & Grid
- Media Queries





# React Basics

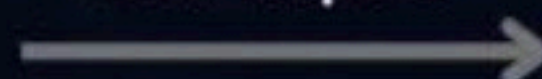
- Introduction to React:
- What is React?
- Why React?
- Virtual DOM
- Setting up Environment:
- Node & NPM
- Create React App
- JSX:
- JSX Syntax
- Expressions SX
- Rendering Elements
- Components & Props:
- Functional Components
- Class Components
- Props
- State & Lifecycle:
- State in Class & Functional
- Components
- useEffect Hook
- Lifecycle Methods in Class Componen





# Advanced React

- Hooks:
  - useState
  - useEffect
  - useContext
  - UseReducer
  - useRef
  - useMemo
  - useCallback
  - Custom Hooks
  - Context API
  - Creating Context
  - Consuming Context
  - Updating Context
- Routing:
  - React Router Setup
  - Route, Switch, Link, NavLink
  - Route Parameters
  - Nested Routing
  - Higher Order Components (HOC)
  - Render Props
  - Suspense
  - Portals
  - Error Boundaries
  - Fiber Architecture





## Styling in React

- CSS-in-JS Libraries:
- Styled-components
- Emotion
- CSS Frameworks:
- Bootstrap with React Material-UI
- Ant Design

## State Management:

- Redux:
- Store, Actions, Reducers
- Middleware (thunk, saga)
- React-Redux Hooks (useDispatch, useSelector)
- MobX
- Local State Management Patterns
- (Lifting State Up, Container Components)

## Testing

- Jest
- Writing Tests
- Running Tests
- React Testing Library
- Enzyme

## Performance Optimization

- Virtualized Lists (e.g., react-window)
- useMemo, useCallback
- React.lazy and Suspense
- Code Splitting

## Frameworks

- Next.js

## Forms

- React Hook Form- Formik
- Final Form



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