

Swapnil Rawat

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Summary

Software engineer with over 3 years of experience in building scalable, performant web applications using React. Strong in UI/UX best practices and advanced state management. Experienced in component-driven architecture and frontend performance optimization.

Experience

Infosys Ltd. | Senior Systems Engineer | Chandigarh, India

July 2022 – Present

- Led React-based frontend development, significantly reducing load times and improving Largest Contentful Paint (LCP) by 15% through code splitting and performance optimizations.
- Enhanced high traffic applications by implementing React lazy loading and resulting in a 35% decrease in initial load times.
- Built responsive web applications with React and optimized for mobile platforms, resulting in a 35% increase in mobile traffic.
- Developed advanced state management solutions using Redux and Context API, facilitating seamless data flow and improving application performance by 20%.
- Created reusable component libraries and custom hooks to promote consistency and scalability across multiple projects.
- Facilitated extensive code reviews and pair programming sessions that reduced bug occurrences by 25%, maintaining high code quality and improving team knowledge sharing.

Projects

Infosys Energy Management System | Enterprise Web Application

- Developed a React-based real-time energy monitoring dashboard, improving code maintainability by 20% and user interaction by 25% through modular design and intuitive data visualization.
- Built a Chart.js-based data visualization dashboard, enhancing customer insights by 40%.
- Optimized data fetching using React Query with stale-while-revalidate strategy, reducing perceived latency.
- Enhanced system scalability by implementing lazy loading for dashboard components, improving its initial load time by 25%.
- Actively participated in and led code reviews, enhancing code quality and team knowledge sharing.

Global E-Commerce Platform | Multiplatform Web Application

- Led development of a dynamic, modular e-commerce platform using React with functional components and hooks, enabling rapid feature releases and reducing code redundancy by 40%.
- Used Redux Toolkit to manage global state for cart, authentication, and product filters; significantly improved performance with memoization.
- Applied lazy loading, code splitting (React.lazy + Suspense), and image optimization strategies, reducing page load time by 30%.
- Developed reusable components and optimized re-renders using React.memo and useCallback.
- Incorporated accessibility best practices and implemented unit tests using React Testing Library and Jest with 90%+ coverage.

Skills

- **Technologies:** React.js, Angular, JavaScript, TypeScript, HTML5, CSS3
- **Cloud & Systems:** Amazon Web Services (AWS), Linux
- **Databases:** PostgreSQL, MySQL, SQL Server, MongoDB, ChromaDB
- **Developer Tools:** Git, GitHub, VSCode, Postman
- **Libraries & Frameworks:** Redux/Redux Toolkit, Tailwind, Material UI, Bootstrap, React Query, React Router

Education

B.Tech (Computer Science and Engineering), Graphic Era Hill University, Dehradun

2018 – 2022

- CGPA: 8/10

Achievements

- Received "**Infosys Rise Gracias Award**" for top performance.
- Successfully completed **IBM Cloud Application Developer** certification.