

ELAVARASAN SEKAR

Frontend Developer | React.js | Next.js | React Native | TypeScript | Tailwind CSS

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Results-driven Frontend Developer with 3.3+ years of experience building scalable, responsive, and accessible web and mobile applications using React.js, React Native, Next.js, and TypeScript. Proven track record in delivering high-performance UIs, optimizing page load times, and collaborating in Agile teams to ship production-ready code. Adept at integrating third-party APIs (REST, Firebase), implementing authentication flows (OAuth2, OpenID Connect), and writing maintainable unit tests using Jest and RTL. Strong understanding of Git-based workflows, CI/CD practices, and cross-browser compatibility.

SKILLS

Languages & Technologies: JavaScript, TypeScript, HTML5, CSS3, Sass, Tailwind CSS

Frameworks & Libraries: ReactJS, React Native, Redux Toolkit, Next.js, Material UI

Testing & Debugging: Jest, React Testing Library, Postman, Sauce Labs, SonarQube

Design & PM Tools: Figma, Jira

APIs & Tools: REST API, Git, GitHub, GitLab

WORK EXPERIENCE ReactJS Developer Mar '23 - Present

Tata Consultancy Services **Chennai, TN**

- Understood the **functional** and **non-functional requirements** of the feature and designed the HLD documentation for internal audits, outlining **component interactions, logic, data flow** and **optimizations** for better UX, thereby reducing dev reworks by 100%
- Orchestrated **global state management** for the data layer using **Context API, useReducer** for handling complex state and implemented possible **data normalizations** to have a O(1) lookup
- Utilized **GitLab for version control** and code repositories management to ensure seamless collaboration through accurate code tracking, reducing deployment errors by 85%
- Transformed design mockups and wireframes into responsive and pixel-perfect UI components, achieving a 85% fidelity rate to original designs, meeting client expectations
- Reduced the initial app loading time by optimizing core web vitals and **inlining critical assets and dependencies** of the selected **LCP candidate**, resulting in a render time of 0.9s
- Revamped the reconciliation process by **memoizing** the heavy running functions to maintain referential equality leading to an **80% more efficient tree conversion** through **react hooks**
- Optimized images by using **WebP formats, progressive JPEGs**, and **caching** for reduced latency and **ondemand loading**, resulting in a 50% reduction in total bytes and rendering time
- Conducted testing on must-go features of the app using Jest and **React Testing Library**, achieving nearly **80% test coverage**

- Refactored large components into smaller, **single-responsibility** units, cutting code complexity by 35% and promoted reusability by implementing **HOC and custom hooks**

React Native Developer Apr '22 - Mar'23 (TCS)

- Developed 20+ reusable components using React Native for both iOS and Android platforms, improving code maintainability and UI consistency.
- Improved app performance and reduced crash rates by 35% through targeted iOS debugging and optimization. Collaborated with designers in Agile sprints to translate Figma designs into pixel-perfect UI.
- Integrated over 100 RESTful APIs built with Java Spring Boot to enable real-time data communication across mobile modules.
- Ensured cross-platform compatibility and responsiveness across 10+ device types using Sauce Labs and BrowserStack.
- Achieved 80% unit test coverage using Jest and SonarQube, minimizing regressions during production.

React Portfolio

[Portfolio Link](#)

[React Source Code](#)

- Created a portfolio using Next.js and hosted on Vercel, employing **Tailwind CSS**.

React E-Commerce

[Website Link](#)

[React Source Code](#)

- Created an E-Commerce app using the fast-rendering **ReactJS library**.
- Applied **OpenID connect for authentication** and **Google OAuth2.0 with authorization code flow using firebase** for a seamless and secure sign-in experience for users
- Handled the UI layer using **Tailwind CSS** for rapid UI development (<10kb CSS bundle) for better responsiveness and lower bounce rates
- Managed the data flow using **Context and Persist** for centralized state management
- Produced 5+ **custom hooks and HOCs** for reusability and separation of concerns
- Employed **code splitting** and **lazy loading** below the fold content resulting, in a 40% faster initial loading of app **React E-Commerce App**.

React Digital Agency App

[\[Live Site\]](#)

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[\[React Source Code\]](#)

- Built and deployed a responsive Digital Agency website using React.js, hosted on Vercel with GitHub integrated CI/CD. enforced smooth UI animations, service sections, and contact form.

Photography Website

[\[Live Site\]](#)

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[\[React Source Code\]](#)

- Developed and deployed a minimalistic photography portfolio using React.js and Tailwind CSS, hosted on Vercel with automated deployment via GitHub.

EDUCATION and ACCOMPLISHMENTS

Bachelor of Engineering- Mechanical (May '17 - Jun '21). *Government College of Engineering, Anna University Tanjore.*

- Won Elevate Wings 1 award for clearing JavaScript, react js, and business skill exams in TCS