Pallavi Khedle

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SUMMARY

Software Engineer with extensive experience delivering responsive, live, and scalable web and cross-platform mobile applications using leading JavaScript frameworks and modern web technologies. Skilled in performance optimization and reusable component design. Expertise in state management, frontend libraries, and seamless API integrations.

SKILLS

Frontend	Backend	Database	Tools
JavaScript, TypeScript, React, NextJs, Redux, ReactNative, NodeJS, GraphQL, Cypress	Python, Java, SpringBoot, JWT, Hibernate, Servlet, CI/CD, Docker	MySQL, Firebase, SQLite, Mongo DB(Mongoose), IndexedDB, Supabase	Figma, Xcode, AWS, REST, Android Studio, Jest, Webpack, Git

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer, Model.Earth   06/2024 – present | San Jose, CA

- Developed dynamic visualizations and dashboards using React.js, Next.js, Mapbox, **D3.js, and Chart.js** for environmental data and critical business metrics, enabling real-time updates, and optimized performance with large datasets.
- Implemented high-performance rendering strategies using **memoization**, **virtualization (react-window)**, and lazy loading to handle massive datasets, achieving performance gains up to 35%.
- Designed and implemented a robust component library leveraging **Material UI** and **Atomic** Design principles, driving UI standardization, enhancing reusability, and accelerating development efficiency by 25%.
- Implemented **CI/CD workflows** specifically tailored for frontend builds using GitHub Actions, CircleCI, or GitLab CI/CD, improving deployment frequency and reliability.

Technologies: *React, Redux, NextJS, Design System, Typescript, Performance Optimization*

Frontend Engineer, Athletes Thread LLC   05/2023 – 04/2024 | Los Angeles, CA

- Integrated **Redis** for caching and session management, reducing server load by 85% (from ~160/sec to ~20/sec) and improving page rendering speed by up to 40% through efficient in-memory and browser **caching strategies**.
- Implemented advanced frontend **optimization techniques** including prefetching, code splitting, and SSR/ISR with Next.js, achieving rapid page responsiveness and SEO improvements.
- Developed a product filtering system using Next.js, and **React Query**, optimizing data fetching with SSR and **caching.**
- Crafted custom **TailwindCSS** classes for specialized design needs, accelerating consistent UI development across projects.
- Built custom UI components with React.js for a SaaS platform supporting complex workflows and implemented **E2E tests** using **Cypress** to ensure cross-browser compatibility.

Technologies: *React, React Query, TailwindCSS, Caching Mechanism, Cypress, UI Enhancements*

Senior Software Engineer, Relyon Soft Tech LTD   08/2020 – 07/2022 | Bengaluru, KA

- Built scalable, high-performance client-side applications using **React, Redux**, reducing load times by 30% through optimized rendering, **code-splitting**, lazy loading, memoization, and offline functionality to enhance user retention.
- Implemented a **micro-frontend** architecture with React Query and Storybook, orchestrated via Docker Compose, enhancing scalability, component reusability, and accelerating developer onboarding.
- Deployed scalable frontend applications to **AWS S3, CloudFront,** and **Amplify,** ensuring reliability and efficient global distribution.
- Established **frontend monitoring** and analytics with **Sentry, New Relic**, Google Analytics, and Firebase Crashlytics, proactively resolving issues, guiding data-driven UI enhancements, and increasing customer retention by 20%.
- Configured robust API security through **CORS policies** and **token-based authentication** to prevent unauthorized data access.

Technologies: *React, AWS, TypeScript, Micro-frontend, Authentication, Jest*

Software Engineer, 3E Software Solutions   07/2017 – 07/2020 | Bengaluru, KA

- Led development of responsive UIs using CSS3, **Flexbox, and Grid** for consistent cross-device experiences.
- Devised frontend caching mechanisms using **local storage and indexedDB,** dramatically reducing backend API load and improving offline capabilities of web applications.
- Implemented **custom hooks** and **reusable components**, streamlining code across complex GIS-based projects, improving code maintainability, and boosting development efficiency by 20%, while reducing redundancy across the codebase.
- Enhanced frontend analytics by integrating **Google Analytics and Firebase Crashlytics**, driving data-informed UI improvements and bug prioritization, increasing customer retention by 20%.
- Added **Express.js** middleware for custom authentication and error handling, streamlining **API requests** and enhancing security and reliability across backend services.

Technologies: *React, Code Migration, ExpressJS, CSS, Firebase, GraphQL,IndexedDB*

EDUCATION

Master of Science in Computer Science, California State University, Fullerton   08/2022 – 05/2024

Bachelor of Engineering, Rajiv Gandhi Proudyogiki Vishwavidyalaya   08/2014 – 05/2018