Rahul Anand Nayanegali

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SKILLS / CERTIFICATIONS

React Ecosystem: React 18+, TypeScript, Next.js, Redux, Custom Hooks, Context API
Performance: Core Web Vitals, Lazy Loading, Memoization, State Management
Component Architecture: Reusable Patterns, Component Design, Design Systems
Styling: Tailwind CSS, Chakra UI, Material UI, CSS-in-JS, SCSS
Build & Testing: Vite, Webpack, ESBuild, Jest, React Testing Library, Storybook, TDD, **Vite**, Webpack, ESBuild
Browser Extensions: Chrome Extension API, Content Scripts, Background Workers, Message Passing Patterns
AWS Certified Cloud Practitioner March 2022, **Master JavaScript** – LinkedIn Learning Oct 2023.

EXPERIENCE

Shoptaki, Senior Software Engineer, New York, NY   Aug 2024 – Present
- Implemented reusable component library with TypeScript, enabling faster development cycles and consistent UI across the application
- Architected and developed RESTful Node.js API services that seamlessly integrated with ArangoDB, supporting complex graph data relationships
- Implemented CI/CD pipeline with automated testing, ensuring code quality and facilitating rapid deployment to multiple environments

Aquila Test AI, Software Engineer, Remote   July 2023 – Present
- Developed high-performance QA automation Chrome extension using React 18 and TypeScript, reducing workflow creation time by 95% (2 days to 20 minutes)
- Engineered intelligent DOM traversal system using memoization and custom hooks, automating XPath generation with near-perfect accuracy
- Implemented cross-context communication system between content scripts and UI components using message bus pattern, ensuring reliable state management
- Built responsive UI with Tailwind CSS and Chakra UI, utilizing lazy loading and performance optimizations for seamless user experience
- Established reusable component architecture with custom hooks and TypeScript patterns, reducing future feature development time by 60%
- Led complete product development from ideation to production, creating comprehensive documentation and development guidelines for the team

CodeCraft Technologies, Engineer, Web Development, Bangalore, India   February 2021 – January 2023.
- Led Next.js migration across multiple client projects, achieving 40% Core Web Vitals improvement and 50% reduction in Time to Interactive through SSR optimization
- Modernized legacy React codebase with webpack and babel upgrades, reducing build time by 50% and implementing automated testing that increased coverage to 90%
- Architected performant tree-based UI component library for workflow management, delivering 40% improved user engagement and 30% faster load times
- Designed and implemented debounced search functionality serving 200K users, reducing API calls by 70% and improving search performance by 30%
- Created technical training program for 30 developers focusing on React/TypeScript best practices, resulting in 60% quality improvement and 40% team productivity gain

Tata Consultancy Services, Assistant Software Engineer, Bangalore, India   November 2018 – May 2020
- Built real-time dashboard using React and SCSS with 99.9% uptime, serving 50K daily active users

OPEN SOURCE CONTRIBUTIONS

Univer (dream-num/univer) - Core Contributor
- Optimized critical React rendering performance in spreadsheet application's Ribbon component using useMemo and ResizeObserver, eliminating rendering bottlenecks
- Engineered solution for UI flickering issues affecting global user base, implementing advanced React optimization patterns
- Delivered production-grade performance improvements through collaborative development & rigorous code review process

PROJECTS

AI-Based Common Thorax Disease Detector using X-Ray   July 2023 – May 2024

Technologies: PyTorch, React, Flask, CNN, ROC-AUC

- Designed and implemented a scalable system architecture integrating a deep learning CNN model with a React frontend and Flask backend, achieving 93% accuracy in X-ray image classification.

EDUCATION

Pace University, Master of Science in CS | **GPA**: **4.0 / 4.0** | **Computer Science Dept Award**   Jan 2023 - May 2024**,** New York, NY