Kanishk Saini

Senior Frontend Engineer | React | Micro-frontends | Performance | Design Systems

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Profile Summary

Senior Frontend Engineer with 4.5+ years of experience solving **large-scale frontend performance**, **scalability**, and state-management challenges across complex web platforms. Proven ownership of migration roadmaps, **cross-functional delivery**, developer experience initiatives, and **Core Web Vitals optimization**. Strong stakeholder management partnering with Product, Design, and Backend teams to align architecture with business outcomes.

Experience

Software Engineer II, NinjaVan - Hyderabad
December 2024 – Present

- Architected the transition from monolith to **distributed micro-frontends** using Module Federation. Decoupled 10+ domains to isolate failure points and **optimized build graphs**, reducing CI/CD **build times** by 50% and enabling independent release cycles.
- Engineered a centralized **UI Platform** and component library, enforcing strict **WCAG 2.1 accessibility compliance** and semantic versioning. Streamlined frontend development across teams, resulting in **30% faster feature delivery** and unified UX patterns simplifying long-term component evolution.
- Resolved dependency and runtime incompatibilities by upgrading **Node.js runtimes (v14 to v18)**, remediating **critical security vulnerabilities (CVEs)** to ensure platform compliance and stability.
- Defined frontend **engineering quality standards**, TypeScript patterns, linting rules, and unit test KPIs (80%+) by **mentoring engineers** through pairing and review frameworks to lower regression and onboarding time.

Software Engineer, QiO Technologies - Pune
June 2021 – November 2024

- Built a **No-Code Widget Builder** supporting 50+ visualization types; **cut dashboard creation time by 70%** and scaled adoption to **10,000+ custom visualizations**.
- Built the **frontend configuration engine** for AI model integration, abstracting complex backend logic into an intuitive UI. Reduced algorithm setup latency by **60%**, accelerating the adoption of ML models by non-technical stakeholders.
- Implemented a **Hybrid Architecture** by integrating **React components within a legacy Angular application**. This strategic move enabled gradual migration, improved UX consistency, and lowered page load times by **30%**.
- Optimized critical rendering paths, slashing First Contentful Paint (FCP) from **6s to 2.5s** for **high-throughput enterprise applications** handling heavy data loads, by identifying render-blocking resources and unnecessary synchronous work in the critical path.
- Engineered a **Resilient File Upload Service** (handling 500+ daily uploads) with auto-retry mechanisms, which **increased upload speeds by 40%** for large datasets with explicit handling of partial failures and network retries.

Skills

Frontend Engineering: React.js, TypeScript, Angular, JavaScript (ES6+), HTML5, CSS3, TailwindCSS
Architectures: Micro-frontends (Module Federation), Distributed Frontends, Design Systems
State & Data: Redux Toolkit, Zustand, NgRx, RxJS, TanStack Query, Axios
Performance & Observability: Core Web Vitals, Datadog RUM, Webpack, Vite, Lighthouse, Critical Rendering Path, Web Security (XSS/CSP)
Testing & Code Quality: Jest, React Testing Library, TypeScript Contracts, CI Quality Gates
Backend & Integration: Node.js, REST API Integration, JWT Authentication
CI/CD & DevOps: Jenkins, Bamboo, Release Pipelines, NPM Workspaces, Versioning Strategy
UI & Accessibility: Ant Design, Material UI, WCAG 2.1, WAI-ARIA, Responsive Design

Education

University of Pune, M.Sc. in Computer Science — August 2019 – June 2021
University of Delhi, B.Sc. in Mathematics — July 2015 – June 2018