

PRATIK SINGH

Frontend Architect | React, Next.js | Performance & Accessibility | Design Systems | 12+ Years Building Scalable Applications

Bangalore, India | +91 99864 25864 | pratiksk@outlook.com | [linkedin.com/in/in4no](https://www.linkedin.com/in/in4no)

ABOUT ME

Frontend Architect and Engineering Leader with 12+ years of experience building and scaling high-performance, user-centric web applications across enterprise, SaaS, and AI-native domains. Deep expertise in frontend architecture, Next.js rendering strategies, technical risk analysis, and leading cross-functional teams. Strong collaborator with product, design, backend, and QE stakeholders, delivering scalable, secure, and accessible solutions.

SKILLS

Leadership: Frontend Architecture & System Design · Team Leadership & Mentorship · Delivery Planning & Technical Risk Management · Cross-Functional Collaboration · Code Quality, Reviews & Engineering Standards · Agile/Scrum

Frontend: React, Next.js (SSR, CSR, streaming, React Server Components), TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS

State Management: TanStack Query (server state), Redux Toolkit

AI Integration: OpenAI & Ollama APIs, conversational UI, structured outputs, prompt engineering, agent-driven workflows; AI-assisted engineering (coding assistants, AI-code review standards)

Data Visualization: D3.js, React Charts, MUI DataGrid Pro, React Flow

APIs & Backend: Node.js (Next.js server-side patterns, API routes), .NET, Python, REST, GraphQL

Databases: PostgreSQL, Firebase (Firestore, Realtime DB), SQLite, Redis

Security: OWASP Top 10, XSS/CSRF prevention, CSP & secure headers, JWT/OAuth2, Snyk, Dependabot

Testing: Vitest, Jest, Playwright — unit, integration, E2E

Observability: Sentry, PostHog, Google Analytics, Mixpanel

DevOps & Cloud: Docker, Kubernetes, AWS, Azure, GCP, CI/CD (GitHub, Bitbucket)

Practices: Component-driven design, accessibility (WCAG), performance engineering, Vite/Webpack/Babel

WORK EXPERIENCE

Frontend Tech Architect — Stealth Startup | Austin, Texas (Remote)

Jun 2024 – Jun 2026

- Led and scaled a frontend engineering team of 6, driving architecture, code quality, and delivery across multiple product verticals and workstreams.
- Architected the frontend for a **marketplace for AI agents**, covering agent discovery, listing, subscription, and transactional user journeys with conversion-sensitive UI flows.
- Defined frontend architecture using **Next.js, React, and TypeScript**, selecting rendering strategies (SSR, CSR, streaming, React Server Components) per route for performance and SEO.
- Built AI-powered **conversational interfaces where agent responses drive dynamic UI rendering** through structured payloads (OpenAI, Ollama), plus intelligent recommendations and workflow automation.
- Designed a centralized **UI component library/design system consumed across 3 business verticals** — with versioning, reuse, and governance standards — reducing development effort ~35%.
- Standardized **server-state management on TanStack Query** with caching strategies and data orchestration patterns.
- Established **AI-assisted engineering standards** for the team: coding-assistant usage, review and validation of AI-generated code, and prompt hygiene.
- Improved web performance: ~45% LCP improvement, ~30% bundle-size reduction, ~25% TTI improvement; drove observability and release-health monitoring via Sentry and PostHog.
- Built testing infrastructure raising coverage to ~80%, cutting production bugs ~35%; implemented CI/CD pipelines and containerized deployments (Docker, Kubernetes).

- Established frontend security practices (XSS/CSRF protection, secure token handling, OWASP guidelines).
- Spearheaded POCs for upcoming spin-offs, reducing time-to-market ~40%; mentored engineers through code reviews and architecture discussions.

Tech Lead - Frontend — Babblebots.ai | Mumbai

Sep 2023 – May 2024

- Led a frontend team of 4 — sprint planning, task allocation, and technical execution — on an AI-driven recruitment platform.
- Owned frontend architecture decisions for scalability, maintainability, and performance; established coding standards and code-quality practices.
- Conducted technical risk analysis for new features, integrations, and architectural changes.
- Led platform redesign to meet international compliance standards, supporting go-to-market execution.
- Partnered with product, design, backend, and QA to translate business requirements into technical solutions.

Senior Frontend Engineer (Acting Tech Lead) — Appspan Tech | Bangalore

Feb 2020 – Mar 2022

- Technical point of contact for frontend initiatives across multiple enterprise products for US-based clients.
- Designed secure, enterprise-grade UI solutions; built 5+ compliant dashboards using D3.js.
- Performed risk assessments on accessibility, performance, and large-scale data visualization.
- Mentored junior engineers and supported architectural reviews.

Frontend Tech Lead — Synup Inc. | Bangalore

Jan 2017 – Dec 2019

- Led frontend developers delivering data-driven, client-facing web applications.
- Designed frontend architecture using React, D3.js, and GraphQL integrated with microservices.
- Reduced production issues through proactive risk analysis during major refactors and feature rollouts.

Frontend Developer — Moonraft Innovation Labs | Bangalore

Jul 2012 – Dec 2016

- Developed 13+ enterprise and consumer web and mobile applications.
- Built 7 internal tools for issue tracking, performance monitoring, and delivery workflows.
- Led 10+ sprints with 80% on-time delivery; mentored engineers across experience levels.

INDUSTRY EXPERTISE

AI Agent Marketplaces & Conversational Systems · Enterprise SaaS Platforms · Analytics & Data Visualization · Compliance & Standards-Driven Applications · Mobility & Automotive Technology

EDUCATION

Bachelor of Engineering — VTU, Bangalore (2008–2012)