LOKENDRA KUMAR

Senior Frontend Engineer | Frontend Architect | AI Frontend Engineer

React.js · Next.js · TypeScript · LLM Applications · Design Systems

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PROFESSIONAL SUMMARY

Frontend and Architecture: Senior Frontend Engineer and Frontend Architect with **6+ years of experience** building and scaling enterprise-grade web applications with React.js, Next.js and TypeScript. Delivered 5 production projects across cybersecurity, ERP, HR, investment and AI domains, with strength in frontend architecture, design systems (Storybook), data-heavy UIs (React Flow, AG Grid), TanStack Query, performance, accessibility and Core Web Vitals.

AI Frontend: Builds AI-powered interfaces with LLM APIs (OpenAI, Gemini, Groq), streaming chat UIs and prompt design, with working knowledge of Vercel AI SDK, tool calling, RAG, LangChain.js, LangGraph.js, AI agents and MCP. Shipped GoChatPilot, a live AI chat Progressive Web App on Next.js, Groq AI, Shadcn UI and Radix UI.

Also: React Native, Node.js / Express.js / MongoDB, and DevOps and cloud basics (Docker, CI/CD, AWS). Earned 2 company awards at Zindagi Technologies for technical ownership and frontend excellence.

TECHNICAL SKILLS

CORE FRONTEND

Languages and Core: JavaScript (ES6+), TypeScript, HTML5, CSS3, Semantic HTML, Flexbox, CSS Grid, Responsive Design, Closures, Event Loop, Promises, Async/Await, Generics, Utility Types, Type Guards, Mapped Types

React and Next.js: React.js 18/19, Hooks, Custom Hooks, Context API, Suspense, Concurrent Rendering, Error Boundaries, Portals, Memoization, React Server Components, Next.js App Router, SSR, CSR, SSG, ISR, Server Actions, Streaming, Middleware

State, Data and Forms: Redux, Redux Toolkit, Zustand, TanStack Query (Server State), Axios, REST APIs, React Hook Form, Yup, Zod, React Router, Protected Routing, React Flow, AG Grid (AgGrid React)

UI and Design Systems: Material UI, ShadCN UI, Radix UI, Tailwind CSS, Ant Design, Bootstrap, Core UI React, Semantic UI, CSS Modules, Styled Components, Sass, Storybook, Design Tokens, Theming, Component-Driven Development

Architecture and System Design: Frontend Architecture, Co-location Pattern, Feature-Based Structure, SOLID, Clean Code, Design Patterns (HOC, Compound Components, Render Props, Observer, Pub/Sub), Micro-Frontends (Module Federation), Monorepo (Turborepo, Nx), Frontend System Design (HLD/LLD), Machine Coding, DSA

Performance: Core Web Vitals (LCP, CLS, INP), Code Splitting, Lazy Loading, Memoization, Virtualization, Debouncing and Throttling, Bundle Analysis, Image Optimization, HTTP Caching, CDN, Lighthouse

Security and Browser: XSS, CSRF, CORS, Content Security Policy (CSP), JWT, OAuth 2.0, RBAC, Browser Rendering Pipeline, HTTP/HTTPS, HTTP/2, WebSockets, Server-Sent Events (SSE)

PWA, Accessibility and i18n: Progressive Web App (PWA), Service Workers, Offline-First Caching, Web Workers, IndexedDB, LocalStorage, SessionStorage, WCAG, ARIA, Keyboard Navigation, Screen Readers, Internationalization (i18n), Localization (l10n)

Testing and Tooling: Jest, React Testing Library, Playwright, Cypress, Postman, BrowserStack, npm, Webpack, Vite, Babel, ESLint, Prettier, Git, GitHub, Sentry, Analytics, Feature Flags

AI FRONTEND ENGINEERING

LLMs: GPT, Gemini, Claude; tokens, context windows, model selection

Prompt Engineering: System prompts, prompt design, structured outputs

AI SDK: Vercel AI SDK

LLM APIs: OpenAI, Gemini, Groq

Streaming: Streaming responses, real-time AI UI

Tool Calling: Function calling, tool execution

RAG: Retrieval-Augmented Generation, embeddings, vector search, document Q&A

LangChain.js: Models, chains, tools, retrievers

LangGraph.js: Nodes, edges, state, agent workflows

AI Agents: Agent workflows, memory, human approval (human-in-the-loop)

MCP: Model Context Protocol, MCP clients and tools

AI Evaluation: LangSmith, Langfuse, evaluation basics

SECONDARY AND SUPPORTING

React Native (Secondary): React Native (Android and iOS), Expo, React Navigation, FlatList and List Performance, Reanimated, Native Modules, AsyncStorage and Secure Storage, App Release (Play Store and App Store)

Backend (Secondary): Node.js, Express.js, MongoDB, REST APIs, JWT Authentication, Role-Based Access Control (RBAC)

DevOps and Cloud (Secondary): Docker, CI/CD Pipelines, AWS (EC2, S3, RDS, ECS, VPC, IAM), Vercel, Git-Based Deployments

AI Dev Tools: Groq AI API, Cursor AI, ChatGPT, Claude, Gemini, GitHub Copilot/Codex, Antigravity, Replit, Perplexity AI

Design and Management: Figma, Jira, Zoho

Soft Skills: Technical Leadership and Ownership, Cross-Functional Collaboration, Communication, Problem Solving, Agile/Scrum, Code Reviews, Attention to Detail

WORK EXPERIENCE

Senior Software Developer | Zindagi Technologies Pvt. Ltd.

Feb 2024 – Present (Around 3 Yrs) · Nehru Place, Delhi, India · On-site

- Lead frontend architecture for an enterprise-grade Cybersecurity Simulation Platform supporting live CTF events, real-time training modules and user/role management at scale.
- Architected a feature-based Co-location folder structure (components, styles, hooks and tests grouped by feature), improving maintainability and onboarding speed.
- Designed and built a reusable component library and design system from scratch with Storybook and Material UI, following SOLID and component-driven development, improving team velocity and UI consistency.
- Implemented server-state management with TanStack Query (React Query), eliminating redundant API calls and keeping complex multi-tab workflows in sync.
- Built React Flow network topology and real-time workflow diagrams and integrated AG Grid (virtual scrolling, inline editing, filtering, custom cell renderers, bulk selection) for live monitoring and large enterprise datasets.
- Optimized performance with code splitting, React.lazy/Suspense, memoization and virtualization while tracking Web Vitals; delivered WCAG/ARIA-compliant, keyboard-navigable interfaces.
- Implemented role-based access control (RBAC) with permission-driven rendering and protected routing for granular user, role and permission management.
- Partnered with UI/UX designers in Figma; shipped responsive, pixel-perfect interfaces validated across browsers and devices with BrowserStack.
- Accelerated delivery with AI tools (Cursor AI, ChatGPT, Claude, Codex) for code generation, debugging, refactoring and documentation, reducing average feature delivery time.
- Earned 2 company awards, 'Standout Performer' and 'Pat on the Back', for technical ownership and contribution to product quality.

Junior Software Developer | Tiwari Tech Industries Pvt. Ltd.

Jan 2021 – Jan 2024 (3 Yrs 1 Mo) · Noida, Uttar Pradesh, India · On-site

- Developed and maintained 3+ production-grade web applications with React.js, Next.js, Redux and TypeScript serving thousands of end users.
- Built an ERP platform (sales, purchasing, vendor management, quotations, product catalog) with Next.js, TypeScript and Ant Design; used SSR and CSR pages for better SEO and faster TTFB.
- Developed an HR management portal covering onboarding, attendance tracking, leave management and automated HR document generation.
- Integrated REST APIs with Axios; implemented JWT authentication, role-based access control (RBAC) and protected dynamic routing.
- Collaborated in agile sprints and code reviews; applied clean-code, functional-component and reusable-architecture practices across all projects.

KEY PROJECTS

GoChatPilot – AI Chat Progressive Web App | Personal SaaS Product | Live Link

Tech Stack: Next.js (App Router), TypeScript, Groq AI API, Shadcn UI, Radix UI, Tailwind CSS, Service Workers, PWA, Vercel

- Built and launched a live AI chat Progressive Web App end-to-end on Next.js App Router and TypeScript as an independent product, owning architecture, UI/UX, AI integration and deployment.
- Integrated the Groq LLM API for low-latency responses with system prompts, prompt design and real-time streaming of replies.
- Designed an accessible, composable interface with Shadcn UI on Radix UI primitives.
- Implemented an installable, offline-capable PWA with Service Workers for caching on desktop and mobile.
- Deployed on Vercel with a custom domain (GoDaddy) and automatic CI/CD from Git; built with an AI-assisted workflow (Cursor AI, Claude, ChatGPT, Codex).

Cyber Security Platform | Zindagi Technologies Pvt. Ltd.
Tech Stack: TypeScript, React, TanStack Query, AG Grid React, Material UI, React Flow, Storybook, HTML5, CSS3, Git

- Architected the frontend for live Capture The Flag (CTF) events, real-time training labs and granular user, role and permission management using the Co-location pattern.
- Built a custom Storybook component library, TanStack Query server state and React Flow topology visualizations for real-time monitoring.
- Delivered role-based dashboards, live event workflows and large-scale data management via AG Grid; accelerated with Cursor AI, Claude and Codex.

HR Portal System | Tiwari Tech Industries Pvt. Ltd.
Tech Stack: JavaScript, React, Redux, Core UI, CK Editor, Semantic UI, HTML5, CSS3, Git

- Built employee onboarding, real-time attendance check-in/check-out and automated leave management.
- Automated Offer, Experience and Relieving Letter generation with dynamic data via CK Editor.

Enterprise Resource Planning (ERP) Platform | Tiwari Tech Industries Pvt. Ltd.
Tech Stack: TypeScript, Next.js, Redux, Ant Design, Core UI, Axios, Figma, HTML5, CSS3, Git

- Built modules for sales, purchases, vendor management, quotations, product catalog and multi-role user access.
- Implemented SSR and CSR pages with Next.js for better SEO and faster TTFB, with TypeScript throughout for type safety.

Investment Management Platform | Tiwari Tech Industries Pvt. Ltd.
Tech Stack: JavaScript, React, Redux, Axios, Bootstrap, HTML5, CSS3, Git

- Built investor registration, dynamic investment forms and real-time portfolio performance tracking.
- Integrated REST APIs with Axios for live investment data and used Redux for centralized state management.

EDUCATION

Master of Computer Applications (MCA) | Kurukshetra University, Kurukshetra, Haryana | In Progress

Bachelor of Science (B.Sc.) | Bundelkhand University, Jhansi, Uttar Pradesh | 2022

AWARDS AND RECOGNITION

- **Standout Performer – Certificate of Achievement, Zindagi Technologies (2025):** Awarded by company Directors for exceptional ownership, timely delivery of critical frontend modules and lasting impact on product quality.
- **Pat on the Back – Rewards and Recognition, Zindagi Technologies (Dec 2024):** Recognized as the backbone of frontend operations for expertise, dedication and a proactive approach.