Harsh Shukla

Frontend Engineer (AI Products)

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [Twitter](#)

Summary

Frontend Engineer with 3.5+ years of experience architecting scalable, high-performance web applications using React, Next.js, and TypeScript. Proven expertise in building production-grade AI-driven interfaces and real-time dashboard systems. Strong focus on performance optimization, modular component architecture, and scalable frontend engineering.

Experience

Software Engineer — Apr 2024 – Present
Observance Solutions — *Lucknow, India*

- Leading frontend development for RagaAI, building scalable AI-driven SaaS interfaces and user experiences.
- Architected **LLM playgrounds**, agent trace visualizations, and high-density **data dashboards** handling real-time model responses and multi-agent workflows.
- Engineered streaming-based healthcare chatbot interfaces and real-time audio agents, implementing robust session management and asynchronous state handling.
- Designed reusable component libraries and testing workflows with Storybook and Vitest, improving maintainability and cross-browser stability.

Associate Software Engineer — Jun 2022 – Mar 2024
CEDCOSS Technologies — *Lucknow, India*

- Owned frontend delivery for **Shopify B2B SaaS integrations**, directly contributing to **$30K+ monthly revenue**.
- Optimized rendering performance and bundle size via Web Vitals analysis, code splitting, lazy loading, and request throttling — reducing API load by **30%** and increasing session duration by **20%**.
- Refactored state management architecture using Redux Toolkit and streamlined **CI/CD pipelines**, improving deployment velocity and release stability.

Projects

[Catalyst](#), RagaAI — Sep 2024 – Present

- Architected frontend for automated **LLM and RAG evaluation platform**, implementing prompt version control, real-time response diffing, and interactive debugging systems.
- Built scalable analytical dashboards and agent workflow visualizations, reducing prompt iteration cycles by **30%** and improving developer productivity.

[Prism](#), RagaAI — Apr 2024 – Sep 2024

- Engineered frontend for a computer vision evaluation platform, developing high-performance video analysis and embedding visualization interfaces using Canvas for interactive frame-level inspection and real-time anomaly detection.

[Google Feed App](#), CedCommerce — Jan 2023 – Mar 2024

- Developed scalable Shopify embedded application using **React**, **TypeScript** and REST APIs, supporting **5,000+ merchants** and managing product listings, ad campaigns, and analytics workflows.
- Built responsive UI flows and secure multi-step authentication systems, contributing to **10% revenue growth** and improved merchant retention.

[NoteFlow AI Assistant](#) | 🔗 — Sep 2025

- Designed and implemented multi-modal **RAG-based AI assistant** with scalable document ingestion and conversational UI architecture in Next.js.
- Integrated vector embedding search and LangChain orchestration for context-aware retrieval and response generation.

Skills

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3
Libraries/Frameworks: React, Next.js, Redux Toolkit, Zustand, React Query, Tailwind CSS, Chart.js, Plotly, Canvas
AI/GenAI: LLMs, RAG, Prompt Engineering, Vector Embeddings, Agent Workflows, LangChain
Tooling & Workflow: Git, CI/CD, Vite, Webpack, Docker, REST APIs, Figma, Storybook, Vitest, Responsive Design, Cross-Browser Compatibility, WCAG, Frontend Architecture, API Integration, Performance Optimization, Debugging

Education

Master in Computer Applications (MCA) — Jun 2020 – Jun 2022
Kamla Nehru Institute of Technology (KNIT)

Certifications

[Oracle Cloud Infrastructure - Generative AI Professional](#), Oracle — Oct 2025
[Developing Back-End Apps with Node.js and Express](#), IBM — Dec 2024