

SUDHANSU KAKKAR

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SUMMARY

Full Stack Software Engineer with 5+ years of experience building scalable frontend and backend systems. Experienced in integrating LLMs, RAG, and agentic AI workflows into production-ready applications.

TECHNICAL PROFICIENCY

- **Frontend:** React, Redux, Redux-Saga, JavaScript, HTML, CSS, REST integration
- **Backend & APIs:** Java, Spring Boot, Python, FastAPI, RESTful services, request/response validation
- **Databases & Storage:** PostgreSQL, MySQL, Vector Databases (FAISS), MongoDB
- **AI / LLM Systems:** RAG, LLM integration (Gemini, OpenAI-style APIs), Agentic AI (CrewAI), self-repair loops
- **Cloud:** AWS, CI/CD pipelines, environment-based deployments

EXPERIENCE

Full Stack AI Engineer, ONCREF

Jun 2025 – Jul 2025

- Built end-to-end full stack AI features using FastAPI and React, owning APIs and UI integration.
- Designed agent-based workflows with CrewAI, for steps like webpage extraction → JSON generation → validation.
- Added output validation, retry logic, and error handling, **reducing ~80% of human effort**.
- Integrated RAG with vector search to ensure LLM responses were grounded in real data and less error prone.

Senior Full Stack Software Engineer, FIDELITY INFORMATION SERVICES (FIS)

Nov 2021 – Jan 2025

- Built and maintained large-scale full-stack banking applications using React, Redux, Java Spring Boot, and PostgreSQL, **developing 15+ backend microservices**.
- Delivered end-to-end net banking features (Profile, Accounts, Payees, Alerts, Fund Transfers) by developing both frontend UI and backend APIs, owning modules from design to production.
- Developed a standalone payment gateway application **processing ~400 transactions daily**.
- Improved development speed and performance by introducing Micro-Frontends, Redux Toolkit, reusable React components and build automation, **reducing page load time by 50% and saving 2+ engineering hours daily**.
- Took technical ownership and leadership, **mentoring a team of 5 engineers**, conducting code reviews, improving code quality, and achieving an AppSec security **score of 94%** while **reducing deployment defects by 20%**.

Frontend Developer, TATA CONSULTANCY SERVICES (TCS)

Aug 2019 – Nov 2021

- Built and maintained a cross-platform logistics application using React Native and Redux.
- Collaborated with product teams to design and deliver new features and enhancements.
- **Resolved 200+ defects** and performance issues, improving application stability and user experience.

EDUCATION

- **M.S. Applied Artificial Intelligence**, Stevens Institute of Technology, USA, 2025 – 2026, Expected
- **B.Tech Computer Science Engineering**, GGSIPU, India (CGPA: 8.4), 2015 – 2019

PROJECTS

- **Web2JSON Agent Studio** (*CrewAI, FastAPI, React*)
Automated conversion of unstructured webpages into structured data, reducing manual extraction effort and errors.
- **AI Resume Chatbot Twin** (*RAG, LlamaIndex, Ollama, Prompt Engineering*)
Resume chatbot enabling recruiters to query candidate experience via natural language with grounded responses.
- **Dynamic Attendance Management System** (*React, Redux-Saga*)
Role-based web application for managing, updating, and tracking attendance for students, teachers, and admins.

CERTIFICATIONS

- **Generative AI: Working with Large Language Models** — LinkedIn Learning, 2025
- **AI Coding Agents with GitHub Copilot & Cursor** — LinkedIn Learning, 2025