

Sameer

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Profile

Full-Stack & Backend Engineer experienced in building scalable microservices, AI-powered systems, and cloud-ready architectures using Node.js, TypeScript, Next.js, PostgreSQL, Redis, Docker, Kafka, Python, and FastAPI. Skilled in LLMs, RAG pipelines, semantic search, and system design. Also completed multiple **freelance engineering projects**, delivering end-to-end solutions for real clients.

Work Experience

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|---|-------------------------------|
| Freelancing | 08/2025 – Present |
| <ul style="list-style-type: none">Developed backend features for a coffee website as an ancillary backend engineer, implementing secure APIs, product flows, and admin integrations.Built a modern hospital website landing page, optimizing UI/UX, responsiveness, and API-connected components for fast performance. | |
| Asicon Electro Innovations Pvt. Ltd (Software Engineer Intern) | 06/2024 – 08/2024
Jabalpur |
| <ul style="list-style-type: none">Designed and implemented smart analytics algorithms for SOC/SOH prediction in battery systems.Worked on both backend services and data pipelines, optimizing processing efficiency.Contributed to real-world IoT-driven applications, improving system reliability and accuracy. | |
| Celebal Technologies (Data Science Intern) | 05/2023 – 07/2023
Jaipur |
| <ul style="list-style-type: none">Built and optimized data-driven applications leveraging ML models.Gained practical exposure to end-to-end development, from data preprocessing to deployment.Collaborated with senior developers, debugging and enhancing project modules. | |

Projects

- Affiliate Marketing Blog Generation (Backend, Microservices, DevOps)**
- Built a **microservices-based backend** that scrapes product data from Amazon and generates **AI-written SEO blogs** using LLMs.
 - Implemented Kafka-based event streaming, enabling scalable processing of concurrent blog generation requests.
 - Designed relational schemas with PostgreSQL and integrated Redis caching, reducing data-fetch latency by ~50%.
 - Containerized services using Docker and deployed a production-ready pipeline.
- RAG Chatbot for Portfolio**
- Built a **FastAPI-based RAG assistant** using FAISS, Sentence Transformers, LangChain, and Groq LLMs to deliver fast, context-aware answers about my skills and projects.
 - Designed the full retrieval pipeline (chunking → embeddings → vector search → generation), creating a **precise, OpenAI-free** recruiter chatbot for my portfolio.
- AI-PDF-Reader (Full Stack, Next.js + AI Integration)**
- Developed an AI-powered PDF intelligence system with a **Next.js frontend**, a **TypeScript API gateway**, and a **Python RAG service**.
 - Implemented **gRPC communication + Protocol Buffers** for reliable, type-safe microservices.
 - Integrated ChromaDB for vector search and implemented chunking + embedding pipelines for semantic retrieval.
 - Containerized the entire system to ensure reproducibility and smooth multi-service orchestration.
- MovieGPT (Frontend)** 🌐
- Created a Netflix-style movie app integrating TMDB APIs and GPT-based movie recommendations.
 - Built modular UI components with React + Tailwind CSS and optimized global state using Redux Toolkit.
- Weather App (Frontend + API Integration)** 🌐
- Built a live weather dashboard with search-based suggestions, real-time temperature, humidity, and wind metrics.

Education

B.TECH (RTU),	2020 – 2024
<i>B.Tech (RTU) Poornima Institute of Engineering and Technology, Jaipur</i> 8.67 CGPA	

Skills

- **Frontend:** React.js, Next.js, Vue.js (basic), Tailwind CSS, HTML, CSS, JavaScript
- **Backend:** Node.js, Express.js, Python (Flask), gRPC
- **Databases:** PostgreSQL, MongoDB, Redis
- **Tools & DevOps:** Git, Docker, Postman, CI/CD (basic exposure)
- **Other:** RAG, LangChain, Hugging Face, Jest (testing)
- **Languages:** JavaScript, TypeScript, Python, C++