

SAIRAM UGGE

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Work Experience

Frontend Engineer — GenAI Platforms

Jul 2024 – Present

Ascension, India

- Co-built a **prompt-to-React code generation system** converting wireframes into production-ready modular components and routing logic; cut frontend development time **50% (2 days to 1 per feature)** and manual coding effort **55%**. Adopted by 2K+ developers across 50+ teams.
- Co-built a GenAI **wireframe generator** converting product inputs (PRDs, sketches, prompts) into production-ready **UI artifacts**; cut UX iteration cycles **40% (5 review rounds to 3)** and sped prototyping **60%**. Serves 500+ users daily.
- Co-built **AAVA Code**, an AI coding plugin for **VS Code**, re-architecting a single-agent prototype into a **multi-agent orchestration system** with a real-time agent UI (Main-Agent + sub-agent on crewAI flows; 150+ skills, 40+ tools, ~60 commands). Adopted by 3K+ users daily across 5+ client environments.
- Co-built and production-hardened **Pensieve**, an AI process-orchestration engine driving multi-agent LLM workflows through **human-in-the-loop approval gates and real-time streaming**, with governed LLM routing across cloud providers. Adopted by 2K+ users daily.
- Co-built a **prompt-driven execution engine** on LLM agent orchestration with RAG and ReAct pipelines; compressed workflow planning from **1.5 hours to 15 minutes** and raised first-pass acceptance from **65% to 85%** for 1.5K+ users.
- Owned backend systems end-to-end (API design, data modeling, event-driven pipelines), scaling throughput **10x at sub-150ms latency** via a decoupled pub/sub architecture (**Redis Streams + SSE**) that eliminated polling and processed 10K+ events/day for 2.5K+ users, driving **sub-150ms live UI updates**.

Skills

Frontend	React, Angular, Next.js, Tailwind CSS
UI Engineering	State Management, Rendering Optimization, Responsive Design, Web Vitals, a11y
Real-Time & Messaging	SSE, WebSockets, Apache Kafka, Redis Streams
GenAI Systems	LLM Agent Orchestration, RAG, Prompt Engineering, Vector DBs & Embeddings
Programming Languages	TypeScript, JavaScript, Python, Go
Backend & Distributed Systems	FastAPI, gRPC, REST, GraphQL, Microservices, Event-Driven
Data & Storage	PostgreSQL, DynamoDB, MongoDB, Redis, ChromaDB
Cloud & DevOps	AWS, Docker, Kubernetes, CI/CD (GitHub Actions, Azure)
Observability	OpenTelemetry, Prometheus, Grafana
Developer Tools	Git, GitHub, Linux, Nginx

Achievements

- Secured top global ranks in competitive programming: **Google Code Jam 2023** (AIR 420; 3,687 / 85,000+) and **Meta Hacker Cup 2022** (4,048 / 70,000+).
- Reached the top tier in **Flipkart Grid 2022** (1,325 / 40,000+).
- Mentored **250–300 students** in **Data Structures and Algorithms (DSA)** through the Smart Interviews program.

Education

B.Tech, Electronics & Communication Engineering, VNR VJIET — CGPA **9.08**

2021 – 2024

Projects

OPS — gRPC Microservices



- Architected a polyglot (**Go + Python/FastAPI**) event-driven microservices system with **gRPC** internal RPC and a REST gateway, featuring etcd-backed leader election, ACID inventory reservations, a Saga orchestrator, and metric-based read routing across PostgreSQL replicas.
- Engineered reliability tooling — Debezium/WAL CDC outbox, Bloom filters, Redis caching (cache-aside, single-flight dedup), rate limiting, DLQ + idempotency, and OpenTelemetry/Prometheus/Grafana observability via Envoy L7.