

ENGINEERING PROFILE

AI Systems & Backend Engineer specializing in production-grade agentic systems, real-time workflows, event-driven infrastructure, and multi-agent LLM orchestration. Experience architecting AI financial advisory platforms, telephony systems, billing engines, and scalable backend services with strong ownership across architecture, observability, reliability, and deployment.

EXPERIENCE

AI SYSTEMS ENGINEER - Sure Financial January 2026 - Present

- Architected a production AI financial advisory platform using Google ADK, Gemini, tool-calling, session memory, and financial data grounding.
- Built parallel thinking and conversational agent pipelines to improve orchestration and response quality.
- Designed structured LLM output schemas enabling dynamic Flutter widget rendering.
- Eliminated async context leakage across user sessions using Python ContextVar isolation.
- Integrated Langfuse observability for tracing, monitoring, debugging, and evaluation.
- Implemented real-time escalation workflows and webhooks for human-in-the-loop support.
- Reduced hallucinations through retrieval pipelines and real-time financial context injection.
- Built FastAPI services and orchestration infrastructure supporting 1,000+ monthly active users and 4,000+ AI conversations per month.

Lead Backend Engineer (Contract) - inboundSelect (US Client) Visit

- Solely architected and built a production inbound-call operations platform handling routing, billing, attribution, and marketplace workflows.
- Engineered low-latency call routing using Twilio, Socket.IO, and eligibility-based dispatch systems.
- Developed multi-tenant billing and payout systems using Stripe Connect
- Built event-driven webhook pipelines and Bull + Redis job systems for invoicing, reconciliation, and recovery workflows.
- Built marketing attribution backends integrating Twilio inbound webhooks with Google Ads to track live campaign ROI.
- Established inbound and outbound support email infrastructure and routing for the platform utilizing AWS SES.
- Designed real-time dashboards for attribution, call funnels, revenue analytics, and live operational tracking.
- Built backend infrastructure using Node.js, PostgreSQL, Redis, AWS, Railway, and Vercel.

BACKEND ENGINEER INTERN — Exploria Apr 2025 – Jun 2025

- Designed and implemented REST APIs using Node.js and Express.
- Integrated AWS S3 and Lambda into scalable backend workflows.
- Built API validation, testing, debugging, and documentation processes.

TECHNICAL SKILLS

Languages

- JavaScript (Node.js), Python, Java, SQL

AI & Agent Systems

- Google ADK, Gemini, LangGraph, Tool Calling, RAG, Multi-Agent Systems, Langfuse, Prompt Engineering, Agent Orchestration

Backend & Systems

- Node.js, Express.js, FastAPI, REST APIs, WebSockets, Socket.IO, JWT Auth, Bull Queues, Event-Driven Systems, Real-Time Infrastructure

Databases & Storage

- PostgreSQL, MongoDB, Redis, Supabase

Cloud & Infrastructure

- AWS (S3, SES, Lambda), GCP, Railway, Vercel, GitHub Actions, CI/CD, CloudFare

Integrations & Tooling

- Twilio, Stripe Connect, Google Calendar API, Cursor, Claude (CLI + Code) , Postman, Git

Open Source Contribution

Mongoose-Zod Schema Builder (npm package)

- Published an npm package enabling **type-safe schema validation** for Node.js applications.

Education

B.Tech in Computer Engineering | K J Somaiya College of Engineering | 2022 - 2026

Relevant Coursework:

Data Structures & Algorithms, Database Management Systems, Computer Networks, Operating Systems, Analysis of Algorithms