Aryan Raj

Software Development Engineer

aryaraj132@gmail.com +918340728808 aryaraj132 aryaraj132

Experience

MovableInk

Software Development Engineer — Remote, Bengaluru, India — March 2026 – Present

- Architected a **Unified Agentic Framework using AG-UI** to standardize AI agent development across the organization. Integrated **Langfuse for observability**, **multi-vendor LLM support**, multimodal data processing, **code execution capabilities**, A2A and RAG/GraphQL/gRPC tool calls.
- Implemented Growthbook for feature flags and designed custom middlewares for robust tool retrying, Slack messaging integrations, and dynamic, **role-based tool restrictions** in the AI framework.
- Engineered UI context synchronization, **enabling LLMs to interact with the on-screen data** visible to users.
- Scaled the AI framework by implementing **SSE stream reconnections across multiple pods** ensuring persistent, fault-tolerant network connections.
- Developed scaffolding templates, enabling new AI agents to be **deployed in under 24 hours**.
- Designed cross-service authentication for System-Wide MCP and agentic tool calls using LB IPs and HMAC validation. Enforced gRPC-based authorization to limit usage scopes based on user roles and permissions.
- Streamlined prompt management and **enabled dynamic LLM model switching** directly via Langfuse, significantly reducing engineering dependencies.
- Successfully released multiple specialized AI agents operating under the new framework paradigm, including an Analytics Assistant, Subject Line Assistant, Audience Builder, and System-Wide MCP.

Mailmodo

Software Development Engineer — Remote, Bengaluru, India — Nov 2022 – Feb 2026

- **AI-Powered Segment Generator:** Developed a **multi-agent AI** system for precise audience segmentation from natural language prompts using behavioral, and engagement data.
- **AI-Powered Journey Builder**: Developed an **AI-powered email journey builder** providing features such as **pre-filling nodes, draft content and templates, streamlining campaign setup** for users.
- **Cloud Cost Optimization:** Reduced annual cloud costs by more than **$50,000** by optimizing databases usage, implemented microservices-based architecture, and optimizing resource allocation.
- Engineered a scalable Shopify ingress service capable of ingesting peak loads of **10K EPS**, with custom pixel tracking cart events.
- Architected and deployed highly scalable worker microservices to process 10,000+ EPS from Google Pub/Sub and Kafka. **Achieved 99.99% system uptime** and ensured zero data loss during high-volume processing.

Skills

Programming Languages	Python, JS/TS, Go, C/C++, SQL, Bash
AI & Agentic Development	LangChain, LangGraph, AG-UI, A2UI, A2A, RAGs, Langfuse
Frameworks	Node.js, React.js, Django, FastAPI, PostgreSQL, Redis
Cloud, Data & Infra	GCP, Azure, Docker, Kafka, ClickHouse, Terraform, Nginx, Linux, ArgoCD, Helm

Projects & Open Source

- **Real-Time Communication**: Implemented a scalable multi-server, WebSocket-based communication channel supporting real-time messaging and automated notifications.
- **Open-Source Contributor – A2A Framework**: Actively contributed to the JavaScript repository of the A2A (Agent-to-Agent) framework as an early adopter. Engineered backward CommonJS compatibility and architected a proposal for a Postgres-based task store to enable durable, long-running tasks.

Education

Govt. Engineering college, Jhalawar — 2019–2023

B.Tech in Computer Science & Engineering — CGPA: 8.5/10