

Mugilan S

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Professional Summary

I am an AI engineer, and everything on this page happened before I turned 21. Give me anything new and I will be working in it within 24 hours. I am Head of Engineering at Metaflow, where I built a production AI marketing agent platform from zero: 559 commits in 5 months. In 3 years I have shipped 50+ agents for clients including a US bank, a trading firm, and an HR platform. I founded Lua Labs and Age of AGI, a free community of AI builders. One of 12 across India picked for the Young Minds Fellowship, backed by partners at Accel. I build agents that survive production, not demos.

Technical Skills

- **AI Frameworks:** LangChain, LangGraph, DeepAgents, Claude Agent SDK, Vercel AI SDK, MCP, Composio, E2B Code Sandboxes, Google Genkit, Google ADK, Whisper (STT).
- **Observability & Evaluation:** LangFuse, LangSmith.
- **Techniques:** Prompt engineering, context engineering, RAG, tool design, MCPs, agent memory, structured outputs, evals, and token cost optimization.
- **Full Stack & Data:** React.js, Next.js, Expo (React Native), Node.js, Python (FastAPI), PostgreSQL, Prisma, Supabase, Redis, MongoDB.
- **Cloud:** GCP (Cloud Run, Vertex AI, Cloud Tasks, Cloud SQL) and AWS (ECS Fargate, S3), Docker, GitHub Actions.
- **Languages:** JavaScript (ES6+), TypeScript, Python, C++.

Work Experience

Metaflow

Feb 2026 to Present

Head of Engineering

- Joined to build the v3 platform from zero. 559 commits in 5 months, owning the architecture end to end: LangGraph and DeepAgents harness, multi tenant tool execution, subagent orchestration.
- Shipped ads operator agents for Google Ads, Meta, and LinkedIn with payload level correctness (GAQL, protos) and eval gated releases, plus a 2,000+ marketing skills system (Sanity CMS on Next.js 15, Python ingestion pipeline).
- I run production end to end: Stripe billing webhooks, PostHog analytics, deployment and cron infrastructure, and the real time streaming chat UX.

Lua Labs, trylua.com

Mar 2025 to Present

Founder & AI Engineer

- My own lab, where I learn new tech by shipping it. 20+ agentic products so far, each with evaluation frameworks tracking accuracy, latency, and cost.
- Autonomous web designer: plain English to production grade React sites in minutes, running in isolated E2B sandboxes, with a Chrome extension feeding live design context to the LLM.
- Self healing video editing agent inside After Effects and Premiere (failed scripts are auto diagnosed with LangFuse and patched, validated with a design partner agency), and a mobile voice agent for Google Workspace with human in the loop approvals.

Kalvium Labs, Bangalore

Apr 2025 to Nov 2025

Software Product Engineer (Internship)

- One of the first three engineers. Built 6 AI products solo for enterprise clients (a US bank, a trading firm, an HR platform), led 2+ team projects, and sat on the Delivery Committee.
- My sales call audit agent cut review time from 2+ hours to under 10 minutes. My NL to SQL analytics chatbot demo turned the prospect into a paying client. I managed ₹5L in AI credits at 2% waste and cut token costs by 40%.
- Brought 80+ qualified leads through live demos and client consultations. Deployed containerized AI services on GCP (Cloud Run, Cloud Tasks, Docker) with observability and fallbacks.

Education

Kalvium Coimbatore B.Tech. in Software Product Engineering	Aug 2023 to Jun 2027
University of Mysore online Bachelor of Computer Applications, Computer Science	Jun 2024 to Jun 2027

Awards and Achievements

- **Founder, Age of AGI:** Free community of AI builders. Learn AI, build with it, grow in public (ageofagi.vercel.app)
- **Young Minds Fellowship (YMF):** Selected for Cohort 1, backed by Accel Partners
- **Dubai AI Week 2025:** Core engineer at Kalvium Labs, selected as Top 5 Indian AI Startup
- **3x Hackathon Winner:** Won three consecutive TinkerHub hackathons; mentored 230+ students in AI assisted development.