

Yashwanth Aravind

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EDUCATION

Bachelor of Technology in Computer Science and Engineering

Kalasalingam Academy of Research and Education

2026

CGPA: 8.53 / 10

TECHNICAL SKILLS

Languages: Python, TypeScript, Go, SQL

AI / ML: PyTorch, LangChain, Hugging Face Transformers, RAG, Vector Databases, AI Agents

Full-Stack: Next.js, React, Node.js, tRPC, PostgreSQL, Prisma

Infrastructure: Docker, Inngest, GitHub Actions, Linux, Vercel

EXPERIENCE

Satyam Venture Engineering Services Pvt Ltd

Aug 2025 – Oct 2025

Software Engineer Intern

Hyderabad

- Built a RAG pipeline that checks automotive design documents against compliance rules, cutting review time for that process by about 30%.

Savemom Pvt Ltd

Mar 2025 – Apr 2025

Full Stack Developer Intern

Remote

- Built the company's production landing page – SEO-optimized React components meeting WCAG accessibility standards.
- Contributed to the internal super-admin portal, including SSR and code-splitting work that cut page load time by 40%.

PROJECTS

Bloom IQ

Next.js, Vercel AI SDK, ChromaDB, Ollama, tRPC, Docker

github.com/yash27007/bloom-iq

- Built a containerized AI assessment platform that runs entirely on local models via Ollama, so exam data never leaves university infrastructure.
- Implemented a RAG pipeline on ChromaDB and the Vercel AI SDK for curriculum-aligned question generation, reaching 95% relevance accuracy.
- Designed a type-safe backend with tRPC end to end, removing an entire class of runtime exceptions during high-concurrency evaluation periods.

Relay

Next.js, React Flow, Inngest, Prisma, better-auth, Polar

github.com/yash27007/relay

- Built a visual workflow automation platform (n8n-style) with 13 node types, including a tool-calling AI Agent node spanning 8 model providers.
- Implemented structural conditional branching: an IF/Switch node's untaken path is pruned from the graph walk entirely, not just greyed out on the canvas.
- Ran every workflow as a durable Inngest function with per-node retries and a realtime status channel, replacing polling with live canvas updates.
- Added encrypted per-user credentials, OAuth account linking, and full execution history with read-only replay of any past run.

Kortex

Next.js, FastAPI, tRPC, Prisma, Inngest, Multi-Agent AI

github.com/yash27007/kortex

- Designed a 3-agent pipeline (Architect, Author, Quizmaster) that turns a topic into a complete, quiz-gated course with modules ordered by Bloom's Taxonomy.
- Built the event-driven pipeline connecting a Python/FastAPI agent service to a Next.js/Prisma app over Inngest, with retries and parallel per-lesson generation.
- Shipped the full product surface: an admin authoring dashboard with live generation logs and analytics, and a learner side with XP, streaks, and server-enforced quiz gating.

OPEN SOURCE

Open-sources every project shipped – Bloom IQ, Relay, Kortex, and more – and actively contributes to the open-source tools they're built on.