

SULAIMAN ABDULLA SHARIFF

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Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C, SQL, HTML/CSS

AI / ML: LangGraph, LlamaIndex, PyTorch, Hugging Face, RAG, Gemini / Vertex AI, Azure OpenAI, OpenCV

Cloud & DevOps: AWS (Lambda, RDS, S3, SQS, ECS, Cognito, API Gateway, SSM), GCP, Azure, Terraform, Docker, GitHub Actions

Frameworks & Data: FastAPI, Django, React, Next.js, PostgreSQL/pgvector, DynamoDB, MongoDB, Pinecone, Qdrant, Redis

Education

Atria Institute of Technology

2023 – 2027

B.E. in Computer Science and Engineering | CGPA: 7.9

Bangalore, India

Clarence High School

ISC Class 12: 83% | ICSE Class 10: 93.4%

Experience

Cognivo OPC (ZoodleMe, Edactly)

Nov 2024 – Present

Founding Engineer · part-time, alongside full-time study

Bangalore, India

- Built **Edactly**, a B2B teaching platform for Indian K–10 schools: teachers generate lesson plans, question banks and revision notes from an **NCERT-aligned library**, with a student AI tutor that **returns nothing rather than a wrong answer** off-syllabus.
- Scaled the **ZoodleMe** backend to **1,600 users** with LLM story generation, TTS narration and image pipelines, and multi-provider payments (Stripe, Razorpay, Apple/Google IAP).
- Ran both products on one serverless AWS platform — **FastAPI on Lambda**, RDS PostgreSQL 16, Cognito SSO — with all 7 Lambdas and the API Gateway in **Terraform** and OIDC deploys, so both **ship from one estate with no servers to operate**.

Datatresures

Oct 2025 – Jun 2026

Full-Stack & AI Engineering Intern

Bangalore, India

- Built **TMF Eye**, a regulated Trial Master File platform where teams file, version and sign off clinical documents — hash-chained audit events and **AWS KMS** e-signatures make every document's history **tamper-evident and auditor-verifiable**.
- Architected a **hierarchical RAG** system over the TMF Reference Model (LlamaIndex, Pinecone, Azure OpenAI) that **answers regulatory questions with cited artifacts**, with quality tracked by an **MRR / Recall@K** harness.
- Built a **CRF OCR engine** extracting clinical form data with Azure GPT vision (schema validation, retry, multi-page consolidation), plus a content assistant letting tutoring-centre staff **search 105 maths PDFs in natural language**.

YantraLive

Mar 2026 – Jul 2026

Software Engineering Intern

Bangalore, India

- Built a WhatsApp-native B2B machinery marketplace agent on **LangGraph** and **Gemini** — a 6-node graph, **38 tools**, durable Postgres state — **handling buyer enquiries end to end**, escalating to a 93-endpoint console on rule-gate triggers.
- Built **tiered inventory matching** (exact → relaxed → fuzzy over Postgres and OpenSearch) behind an event-driven **SQS → ECS Fargate** pipeline autoscaled on queue backlog, **serving 2,300+ inbound leads from 3,500+ buyers** across **36 Indian states**.
- Cut the client's AWS spend **43% (\$626 → \$356/month, ~\$3.2k/year)** by auditing Cost Explorer and removing redundant load balancers, public IPv4 addresses, duplicate CloudTrail trails and unused provisioned concurrency.

Projects

AURA — SSVEP Brain–Computer Interface (patent filing)

ESP32, C++, Python, Flask, React, Gemini

- Built an assistive BCI for users who can move only their eyes: ESP32 firmware running an on-device **Goertzel decoder** over 4s windows at 250 Hz, with an evidence-and-margin commit rule and a second EEG channel as an artifact veto.
- Closed the loop with a vision layer — Gemini detects objects in the room and generates candidate intents that **become the next flickering stimulus set** (the primary patent claim) — validated on self-built hardware at a **12.9 dB gaze-driven response swing**.

Educational Video Generation Engine — 2nd place, CYPHER 3.0

Python, Gemini, Qdrant, Vertex AI, FFmpeg

- Multi-agent pipeline (Director → Scriptwriter → Animator) turning a topic prompt into a **finished narrated maths video** — script, Manim code, voiceover and render — with RAG-grounded codegen and an **AST reviewer applying 15+ static rules, no LLM**.
- Benchmarked and tuned it from **~20 min to ~3 min per video (7× faster)**, eliminating shot render failures and lifting mean automated review score **0.64 → 0.81** on **43% fewer tokens**.

Linkubit — Multi-Tenant AI Revenue Platform

FastAPI, Lambda, PostgreSQL, LangGraph, Terraform, Next.js

- Multi-tenant revenue platform unifying **WhatsApp, Instagram, Messenger and email into one customer graph**, with a LangGraph agent that qualifies and replies to conversations; tenant isolation in **PostgreSQL row-level security**, verified by **1,300+ scenarios**. Staging on AWS.

Leadership

Google Developer Groups on Campus — Atria Institute of Technology

2024 – 2026

Organizer (2025–26), AI/ML Lead (2024–25)

Bangalore, India

- Organised and led several **Build with AI** campaigns and **Google Cloud Study Jams**, helping **120+ students** complete their study jams; as AI/ML Lead ran **Cepheus 2025**, a **400+ participant** hackathon.

Code Club, Atria Institute of Technology

Technical Lead, 2025 – Present

Honors & Awards

- 1st place**, CYPHER 2023 (Wellify-me) | **2nd place**, CYPHER 3.0 (ManimRAG) | **2nd place**, HACKNXS, MIT (Neoelectra) | **3rd place**, SRISHTI VTU (TranslateAI) | **1st Runner-up**, TiE U Bangalore (ScrapSaver) | **Honourable Mention**, Harvard MUN 2022