

Akil Ayman

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About Me

AI Engineer and builder focused on LLM applications, automation, full-stack systems, and zero-knowledge Web3 infrastructure.

Technical Skills

AI & Machine Learning:

LLM application development, RAG pipeline design, FAISS vector stores, autonomous AI agents, MCP integrations, fine-tuning (QLoRA, Unsloth), scoring/ranking algorithms, prompt engineering

Cloud & Infrastructure:

GCP (Cloud Run, Vertex AI, Cloud Storage), Docker, microservice architecture, CI/CD pipelines, REST API design, API gateway patterns, Linux/bash scripting

Full-Stack Development:

Python (FastAPI, Flask), JavaScript/TypeScript, Next.js, React, PostgreSQL, Firebase, n8n & Zapier automation

Experience

Founder & AI Automation Engineer — *ObsiLoom* 2026 – Present

- Building an AI automation agency focused on custom AI agents, intelligent workflows, and business process automation.
- Developing AI-powered solutions for sales, operations, customer support, and repetitive business processes.

AI Intern — *Shri Raja Ramtek FPO Ltd.*

Jun 2026 – Jul 2026

- Applied AI and machine learning techniques to practical agricultural and business use cases.
- Worked with data processing and AI-based workflows to support operational decision-making.

Selected Projects

Nebula — *Verifiable Compute Layer for Stellar*

- Built a zero-knowledge verifiable compute layer for Stellar that executes computational workloads off-chain and verifies results on-chain.
- Developed Rust/Axum backend services, PostgreSQL persistence, job orchestration, RISC Zero proof generation, and Soroban verification infrastructure.

HemoLink — *AI-Powered Blood Donor Platform*

- Developed an AI-powered donor discovery platform combining location-based matching, machine learning eligibility scoring, NLP-based health analysis, and explainable recommendations.
- Integrated Python/FastAPI ML services with a Node.js backend, MongoDB, React frontend, and Gemini-powered analysis.

DarkTalent — *Privacy-Preserving Talent Protocol*

- Built a zero-knowledge talent credential protocol using Midnight Network to prove credential ownership and eligibility without exposing sensitive employment information.
- Implemented privacy-preserving credential commitments, ZK ownership proofs, and automated protocol testing.

ColdChain Pay — *IoT-Driven Stellar Payments*

- Developed a Stellar/Soroban logistics payment system connecting simulated IoT temperature data with automated micropayments.
- Implemented oracle-driven payment triggers, inter-contract calls, and a dashboard for monitoring cold-chain conditions and payment flows.

Achievements & Recognition

- **Web3 Hackathon Winner** — **Stellar BuildStation, Kozhikode**: Won with **Nebula**, a zero-knowledge verifiable compute layer for Stellar that enables computationally intensive workloads to execute off-chain while producing cryptographic proofs for on-chain verification through Soroban.
- **Stellar / Web3 Development**: Built and deployed multiple applications and smart contracts using Stellar, Soroban, Rust, and zero-knowledge technologies.

Certifications

- **AWS Academy Cloud Foundations** — AWS Academy
- **Deep Learning with TensorFlow** — IBM
- **Watson Services – Rapid Development for AI** — IBM
- **IBM Watson Studio** — IBM

Education

Srinivas University — B.Tech. in Artificial Intelligence & Machine Learning