

SAMUEL IYEH CHUKWUDINDU

Backend & AI Engineer · Agentic Systems

Ogbomoso, Nigeria · Remote (WAT, UTC+1) · +234 913 762 5228 thesamueliyeh@gmail.com
softsparq.xyz · linkedin.com/in/thesparq · github.com/thesparq

SUMMARY

Engineer who owns systems end to end. Since 2019 I have run the entire technical stack of a Nigerian school — power, connectivity, identity and a learning platform with 1,000+ lessons in production, now written in Roc and compiled to WebAssembly. B.Tech Computer Science (Second Class Upper), ALX-trained, with a shipped paid client. Looking for remote backend or agent-infrastructure work.

EXPERIENCE

Head of IT — Johnethel School

2019 – Present

Ogbomoso, Nigeria

- Sole technical owner of a primary and secondary school — the entire IT function, from IT support in 2019 to heading it today: power, connectivity, devices, identity, mail and the learning systems staff and students use daily.
- Built and operate the school's learning platform — 1,000+ lesson records in production. Rewritten three times as requirements grew: Python, then SvelteKit with MoonBit and Golem Cloud agents, now Roc compiled to WebAssembly on both client and server.
- Designed the campus solar and electrical protection system (Deye inverters, JinkoSolar panels, Felicity LiFePO4 batteries), now running 24/7.
- Deployed and administer self-hosted mail and identity — Stalwart, Authentik OIDC and Bulwark on Dokploy and Traefik, with Borg backups to Backblaze B2.
- Built an AI content pipeline (BAML, Golem Cloud, Rust, Typst) that produced 100+ print-ready teacher and pupil manuals across 14 subjects and 8 grade levels, cutting production from months to days.

Founder & AI Engineer — Softsparq

2025 – Present

Ogbomoso, Nigeria

- Founded a software and AI automation practice, registered in 2025 and grown out of client work dating to 2021. Delivered the Phoenix Liber project site on a \$500 fixed-fee contract, which extended into additional paid scope.
- Deployed Hermes, an autonomous community agent on a self-hosted Contabo VPS, handling WhatsApp and Telegram onboarding and scheduled daily AI news drops with no manual intervention.
- Evaluate and integrate agent tooling — Golem Cloud, BAML, Mastra, Hermes, Omnigent, n8n — recommending deterministic automation over autonomous agents where cost or reliability demands it.

SELECTED WORK

roc-golem

Roc host platform for Golem Cloud — durable execution, the WASM Component Model, a pre-compiled Rust host, durable timers and WebSocket streaming. 134 commits.

school-management-system

The platform running the school above: Roc on both sides, SurrealDB, Authentik OIDC with PKCE, Cloudflare R2, deployed with Dokploy and Traefik.

SKILLS

Languages Rust · Roc · MoonBit · TypeScript · Python · Go · SQL

AI & agents Golem Cloud · BAML · agent harness design · multi-model orchestration (OpenRouter) · Mastra · Hermes

Infrastructure Linux · Docker · Dokploy · Traefik · Cloudflare (R2, DNS) · Stalwart · Authentik · Borg / Backblaze B2 · Nix

Data SurrealDB · PostgreSQL / Supabase · SQLite

EDUCATION

B.Tech Computer Science — Ladoke Akintola University of Technology (LAUTECH)

2021 – 2025

Second Class Upper Division · Ogbomoso, Nigeria · Final year project: a library management system built with Phoenix (Elixir).

PROGRAMMES & CERTIFICATIONS

ALX Software Engineering — Foundations · 2022 | AI Engineering Professional Certificate, Scrimba · 2024 | NOC Operations, Dotmac · 2026 | Microsoft Learn Student Ambassador · 2020