

# CYPRIAN TINASHE AARONS

## Senior Applied AI Engineer | Python, FastAPI & RAG

Harare, Zimbabwe (UTC+2) · Available now · 4h overlap with US Eastern, full with UK/EU · Full-time remote or contract  
cyprianaarons263@gmail.com · cyprian.topiax.xyz · linkedin.com/in/cyprian-aarons · github.com/CyprianTinasheAarons · Toptal Verified Expert (Python)

### PROFILE

Software engineer with eight years across backend services, product delivery and engineering leadership, now focused on applied AI. I build Python/FastAPI services, API integrations and retrieval-based LLM workflows with explicit tool boundaries, human handoff and evaluation. Former CTO of a small AI-platform team who stayed hands-on in the code. Seeking a senior individual-contributor role owning implementation and delivery.

### TECHNICAL SKILLS

**Applied AI:** LangGraph, LangChain, retrieval-augmented generation, tool calling, LLM evaluation, OpenAI API

**Backend:** Python, FastAPI, async Python, PostgreSQL, Redis, REST APIs, third-party integrations (HaloPSA)

**Cloud & delivery:** AWS, Docker, CI/CD, automated testing

**Interfaces:** TypeScript, React, React Native/Expo, Vue.js

### EXPERIENCE

**Senior AI Engineer | Independent Consultant** Feb 2025 – Present · Remote

- Built a retrieval-based insurance-enquiry workflow for Zimnat using LangGraph and FastAPI, answering policy, claims and renewal questions from approved source material.
- Designed a healthcare debt-recovery workflow across voice and messaging channels, separating the conversation layer from protected tool services with tenant and identity checks, audit records and human handoff.
- Developed Python/FastAPI services on AWS for a psychometric assessment platform (PSC Zimbabwe).

**Chief Technology Officer | AfricAI** Jan 2023 – Feb 2025 · Remote

- Technical owner of an AI platform with a three-developer team: set the architecture, release planning and CI/CD while writing production Python myself.
- Integrated OpenAI and Stability.ai generation into product workflows and the backend services that served them.
- Reduced API response times with Redis caching, query optimisation and asynchronous Python refactoring.

**Full Stack Engineer (Contract) | CST UK** Dec 2023 – Sep 2024 · Remote

- Built a React Native/Expo operations app and FastAPI services for reception, deliveries, visitor passes and device workflows; integrated HaloPSA, live updates, staff notifications, authentication and health checks. Shipped.

**Full Stack Engineer (Contract) | Coindraw** Jan 2022 – Sep 2024 · Remote

- Developed backend functionality for a Web3 competition platform covering payment, draw and prize workflows.

**Frontend Developer (Contract) | Vanti** Sep 2022 – Jan 2023 · Remote

- Built Vue dashboards on Go-based telemetry services for an IoT platform.

**Full Stack Engineer, AI & Web3 | FreeFlow** Oct 2021 – May 2024 · Remote

- Delivered Solidity smart contracts, DeFi and NFT platform work for international clients.

**Senior Frontend Developer → Lead Engineer | Freshideas** Dec 2019 – Dec 2021 · Harare

- Led a cross-functional team delivering eCommerce and SaaS products; owned engineering coordination and releases.

**Founder and CTO | Topiax (software studio)** Oct 2018 – Dec 2023 · Remote

- Founded a software delivery studio; led client projects, architecture and implementation, and set up testing and release practices.

*Contract engagements ran concurrently; overlaps reflect part-time client work.*

### SELECTED ENGINEERING WORK

- Deterministic Safety Sandboxes with MCP:** policy-enforced subprocess gateway for agent tool calls with allowlisting, timeouts, structured audit events and no-shell execution; 18 automated tests including a real stdio MCP handshake.
- Evaluation-driven development suite:** offline evaluation, dataset validation and regression comparison for LLM outputs, with documented metric limits; 15 unit tests.
- Semai AI Support (built):** agent, API, retrieval, tool and operator layers with human handoff (Python, FastAPI, LangGraph, React).

### EDUCATION

**BSc Software Engineering** | Harare Institute of Technology

2021 · Harare