

CYPRIAN TINASHE AARONS

Senior Backend Engineer | Python, FastAPI, PostgreSQL & API Integrations

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 building backend services, integrations and product software, including CTO roles in small teams. I design and ship Python/FastAPI services on PostgreSQL and Redis, integrate third-party systems, and care about testing, failure handling and clear service boundaries. Recent work adds retrieval-based AI features to operational workflows. Seeking a hands-on senior backend role.

TECHNICAL SKILLS

Backend: Python, FastAPI, async Python, PostgreSQL, Redis, REST APIs, service integrations (HaloPSA)

Cloud & delivery: AWS, Docker, CI/CD, automated testing, health checks and notifications

Applied AI: LangGraph, LangChain, retrieval-augmented generation, OpenAI API

Interfaces: TypeScript, React, React Native/Expo, Vue.js; Go (read/integrate)

EXPERIENCE

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

- Built Python/FastAPI services and integrations for client AI workflows, including a retrieval-based insurance-enquiry service for Zimnat (LangGraph).
- Developed Python/FastAPI services on AWS for a psychometric assessment platform (PSC Zimbabwe).
- Designed API and tool boundaries for a healthcare debt-recovery workflow: tenant and identity checks, audit records and human handoff.

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

- Reduced API response times with Redis caching, query optimisation and asynchronous Python refactoring.
- Technical owner of the platform backend with a three-developer team: architecture, CI/CD and release planning while writing production Python.
- Integrated OpenAI and Stability.ai APIs behind internal service interfaces.

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.
- CST Goods-In case study:** architecture, integration design and delivery notes for the CST system above.

EDUCATION

BSc Software Engineering | Harare Institute of Technology

2021 · Harare