

SHALOM TEHE

Backend & AI Software Engineer · FastAPI Specialist · Open Source Maintainer

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github.com/Shalom-302 | linkedin.com/in/shalomt | Open to remote & international opportunities

PROFESSIONAL SUMMARY

Backend & AI Software Engineer focused on building **production-ready backend systems, AI-powered applications, and developer tools**. Creator and maintainer of **Shaapi**, an open-source FastAPI framework published on PyPI, and author of a technical guide on framework engineering. 3+ years of experience designing scalable architectures with Python, FastAPI, and PostgreSQL, and shipping LLM-based systems — RAG pipelines, AI agents, and MCP integrations. Combines hands-on engineering with technical leadership and software engineering education, with a long-term commitment to growing the African technology ecosystem. **This engineer designs, builds, teaches, and publishes.**

PROFESSIONAL EXPERIENCE

Generative AI Developer — Kaanari

Sep 2023 – Present · Abidjan

- Design and ship **backend services for AI-driven products** using FastAPI, async Python, and PostgreSQL — owning systems from architecture to containerized (Docker/VPS) deployment.
- Build and orchestrate **AI agents and LLM pipelines** (LangChain) powering automation, NLP, and intelligent data-extraction features in production web products.
- Integrate generative AI capabilities into customer-facing products, turning ambiguous AI use cases into reliable, secure, production-grade systems.
- Collaborate with cross-functional product, data, and engineering teams on architecture and delivery.

Lead Developer — IT Foundation Côte d'Ivoire

2026 – Present · Abidjan

- Provide **technical leadership** across software projects: architecture decisions, technology choices, and delivery planning.
- Establish engineering best practices — code review, Git workflows, clean architecture, and containerized deployment standards.
- Support and mentor developers, translating business requirements into technical roadmaps and ensuring reliable project delivery.

Professor / Technical Trainer — GEIGE

2026 – Present · Abidjan

Grande École Informatique de Gestion Entreprise

- Teach **software engineering, backend development, and Python** to students and junior developers.
- Design hands-on, project-based curricula and mentor students through real-world builds.
- Recognized for translating complex engineering concepts into clear, actionable learning material.

Earlier Experience

- **Lemon Africa — Network & Security Administrator (Training Program)** · Jan 2022 – May 2023: delivered cybersecurity awareness training and supported the implementation of security protocols and network operations.
- **American Space — Volunteer, Digital Skills Support** · Aug 2021 – Jan 2022: provided technical support and user enablement on digital tools; developed strong communication skills.

FLAGSHIP PROJECTS & OPEN SOURCE

Creator & Maintainer — Shaapi

Open Source · PyPI

FRAMEWORK DESIGN · DEVELOPER EXPERIENCE (DX) · CLI DEVELOPMENT · OPEN SOURCE ENGINEERING

Production-ready FastAPI scaffolding framework distributed through PyPI.

- Designed and developed the framework architecture and a **complete developer CLI** automating backend generation and deployment workflows.
- Ships batteries included: **PostgreSQL, Redis, MinIO, JWT authentication, RBAC**, and Docker-based deployment workflows.
- Publish and maintain the package on PyPI with public documentation and technical learning resources — building **tools for developers, not only applications.**

Author — Build Your Own Shaapi

Technical Guide

TECHNICAL WRITING · SOFTWARE ARCHITECTURE · SECURITY ENGINEERING · PYTHON PACKAGING · DEVELOPER EDUCATION

Authored a complete technical guide explaining how to design, secure, package, and distribute a production-ready FastAPI framework — from architecture and security decisions to packaging and publication.

Lead Backend Engineer — Sevoil

Industry Platform

BACKEND ARCHITECTURE · API DESIGN · SECURITY · DATA MANAGEMENT · PRODUCT ENGINEERING

Real-world business platform for the sale and management of petroleum products. Own backend architecture, API design, and data management for industry-specific business workflows, with a security-first, production-grade approach.

Founder — ShaAI

AI Engineering & Research Initiative

AI AGENTS · MCP · RAG SYSTEMS · LLM APPLICATIONS · KNOWLEDGE SYSTEMS · AI AUTOMATION

Applied AI engineering and research initiative focused on intelligent systems — building agentic architectures, retrieval-augmented generation pipelines, MCP integrations, and AI-driven automation.

Additional Projects

TRAAF — Urban transportation management application: secure FastAPI backend, user and operational-data management, PostgreSQL, Docker deployment on VPS.

Takawake — AI-powered intelligent scraping platform: LangChain agent orchestration, extraction and structuring of complex datasets, high-performance FastAPI services.

Teleco Health — AI-based e-health platform: generative AI assistance and automation, FastAPI + PostgreSQL backend, focus on data security and production-ready architecture.

SELECTED ACHIEVEMENTS

- Created and published a **production-ready FastAPI framework (Shaapi)** distributed through PyPI, with a full developer CLI and public documentation.
- Authored **Build Your Own Shaapi**, a technical guide on framework engineering, backend architecture, and security.
- Led backend architecture for a **real-world petroleum sales and management platform** (Sevoil).
- Founded **ShaAI**, an applied AI initiative shipping agentic, RAG-based, and MCP-integrated systems.
- Delivered **technical education and mentorship** as a professor/trainer and lead developer, and shipped AI-powered systems and developer tools in production.

TECHNICAL SKILLS

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|--------------------------------|---|
| Backend Engineering | Python · FastAPI · REST APIs · Asynchronous Architectures · Software Architecture · Clean Architecture · SQLAlchemy · Alembic |
| Artificial Intelligence | Generative AI · LLM Applications · RAG · AI Agents · MCP · LangChain · Prompt Engineering · NLP & Intelligent Data Extraction |
| Databases | PostgreSQL · Redis · Qdrant · Vector Databases |
| DevOps | Docker · Linux · Git · CI/CD · VPS Deployment |
| Open Source | PyPI · Package Publishing · Documentation · CLI Development |
| Frontend | React.js |

EDUCATION

Bachelor's Degree, Web Programming

ESMA, Riviera — Abidjan · July 2022

Higher National Diploma (HND), Computer Networks

IFSM, Cocody — Abidjan · September 2021

LANGUAGES

French — Fluent (native-level)

English — Professional working proficiency