

SHAMMAH ANGAYE

Fullstack Engineer (Python / React)

Email: shamzyiayy@gmail.com | Phone: 08036745916

LinkedIn: <https://www.linkedin.com/in/shammah-angaye-26558a238>

GitHub: <https://github.com/JAH-SHAMMAH>

Professional Summary

Fullstack Engineer with 4+ years of hands-on experience building **production-ready Python backends and React frontends**. Strong expertise in **FastAPI**, asynchronous **task processing**, and scalable API design for AI-powered applications. Proven ability to **translate complex Python logic and ML inference workflows into reliable, user-facing products**. Highly autonomous, adaptable, and comfortable owning systems end-to-end in **early-stage and fast-moving environments**.

Technical Skills

Python, FastAPI, Django, REST APIs, Async Programming, Background Tasks, Celery, Redis, PostgreSQL, SQL, React, JavaScript, HTML, CSS, State Management, Real-Time UI Updates, OpenAI APIs, AI API Integration, LLM Workflows, Automation Pipelines, Secure API Design

Soft Skills

Excellent Communication Skills, Adaptability, Critical Thinking, Problem Solving, Teamwork, Multi-tasking, Solutions Oriented, Resilience, Willingness to Learn

Professional Experience

Python Educator & AI Mentor — African Youth Architects (Remote, New York)
June 2025 – September 2025

- Built and facilitated an AI-powered mentor system hosted on ChatGPT to guide learners in Python, JavaScript, and Scratch.
 - Designed structured learning flows resembling agent-style AI guidance, improving learner outcomes.
 - Worked independently to research solutions, design workflows, and ship functional educational tools.
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Robotics & Python Facilitator — Fairview

September 2024 – November 2025

- Delivered hands-on Python and robotics training focused on problem-solving and applied engineering concepts.
 - Helped students build practical projects, reinforcing real-world engineering thinking.
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Python Engineer — 360 Information Technology

January 2022 – February 2023

- Designed and maintained scalable backend services using Python and Django, supporting 200+ active users.
- Built and optimized RESTful APIs consumed by web and mobile applications, improving response time by ~40%.
- Converted heavy data-processing scripts into reusable backend services suitable for production workloads.
- Implemented background job processing and asynchronous workflows to handle long-running tasks without blocking user requests.
- Collaborated with cross-functional teams to deploy containerized microservices using Docker and Kubernetes.
- Created automated data pipelines and ETL workflows for analytics and reporting.
- Led debugging and on-call support for production systems, ensuring high reliability.

- Mentored junior engineers on Python best practices, clean architecture, and API design.
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Education

Advanced Diploma in Software Engineering

Aptech Computer Education

Diploma in Software Engineering

AltSchool Africa

Selected Projects

SCHOOL ERP SYSTEM

- Designed and developed a secure, full-stack School ERP system managing students, teachers, parents, and administrators.
 - Built with Python (FastAPI) and PostgreSQL, with a responsive frontend using HTML, CSS, and JavaScript.
 - Implemented role-based access control and centralized school administration.
 - Integrated AI-driven analytics to track school store performance and generate actionable recommendations for business improvement.
 - <https://github.com/JAH-SHAMMAH/SCHOOL-ERP-SOFTWARE>
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Secure Blog API

- Designed and built a **secure, production-grade REST API** using FastAPI for blog content management.
- Implemented **JWT-based authentication and OAuth2 authorization** to secure user access and protect sensitive endpoints.
- Applied **API security best practices**, including token validation, password hashing, and protected routes.

- Optimized API performance and ensured reliable data handling for authenticated user workflows.
 - <https://github.com/JAH-SHAMMAH/BLOG-API->
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