

VICTOR CHUKWUEMEKA

Full-Stack / Backend Software Engineer | MSc Computer Networking & Cyber Security (London)

CONTACT

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- ☐ London, UK (Available immediately)

PROFILE

Results-driven software engineer with 7+ years designing, building, and deploying full-stack and backend systems in production. Proven track record delivering scalable solutions for education, fintech, and community platforms serving 200–300+ users. I enjoy taking ownership of systems end-to-end and keeping them fast, reliable and secure for real users. Strong foundation in Python (Flask/Django), JavaScript/Node.js, and cloud infrastructure. Currently completing an MSc in Computer Networking & Cyber Security at London Metropolitan University. Seeking full-time UK software engineering roles.

WORK EXPERIENCE

FULL-STACK DEVELOPER & IT SUPPORT LEAD | RUKATECH COMPUTER COLLEGE, OGUN STATE

JULY 2024 - MARCH 2025

- ❖ **Designed and deployed a production Learning Management System (LMS)** using Flask, SQLAlchemy, and Bootstrap, serving 300+ students and staff; architected role-based access control and secure handling of student data.
- ❖ **Optimised server performance by 40%** through Redis caching implementation and Nginx + Gunicorn configuration, reducing page load times and improving user experience under peak load.
- ❖ **Implemented automated database backup protocols** and query optimisation strategies, achieving 99.9% uptime and zero data loss across business-critical systems.
- ❖ Delivered workshops on secure coding practices, deployment pipelines, and infrastructure scaling to technical staff and developers.
- ❖ Provided technical support and troubleshooting for 300+ end users, resolving system issues and ensuring platform stability.

DATABASE & SYSTEMS ENGINEER | SIKRU ADETOLA COLLEGE OF EDUCATION, OGUN STATE

MARCH 2020 - JUNE 2024

- ❖ **Administered and optimised MySQL databases** for a 5,000+ user institution; designed and maintained automated backup and disaster recovery protocols, achieving 99.9% uptime SLA.
- ❖ **Architected and maintained backend infrastructure** using Python automation scripts, Linux servers, and monitoring tools (Syslog, SNMP basics); reduced manual configuration time by 70% through scripting and documentation.

- ❖ **Managed user access control and system security** as part of broader IT and cybersecurity initiatives; implemented least-privilege access policies and reviewed system logs for anomalies.
- ❖ Collaborated with cross-functional teams using agile methodologies to design and deliver secure, scalable digital services for administrative and academic users.
- ❖ Provided internal IT support including troubleshooting, software updates, network diagnostics, and helping non-technical staff resolve connectivity and application issues.

SOFTWARE ENGINEER (VOLUNTEER) | NACOS-SACOETEC CHAPTER, OGUN STATE.

JUNE 2021 - JUNE 2024

- ❖ **Led the full-stack development** of a secure online voting and quiz platform using Python backend and web frontend technologies, serving 200+ active members with zero security incidents.
- ❖ **Designed and deployed a payment portal** that improved dues collection compliance by 60%; integrated secure payment processing and automated reconciliation logic.
- ❖ **Conducted regular system audits and databases**, ensuring data integrity, platform security, and 99%+ availability for mission-critical community functions.
- ❖ Mentored junior volunteers on software development best practices, code review, and deployment processes.

EDUCATION

Master of Science: Computer Networking & Cyber Security

London Metropolitan University | May 2025 – Present

- ❖ Coursework in advanced networking protocols (OSPF, VLANs, routing), cybersecurity frameworks, information security, and network troubleshooting.
- ❖ Building practical labs and projects in network design and security implementation.

Bachelor of Science: Computer Science (Second-Class Upper)

Olabisi Onabanjo University | August 2018 – April 2023

SKILLS

LANGUAGES & FRAMEWORKS

- ❖ **Backend:** Python (Flask, Django, SQLAlchemy), JavaScript/Node.js (Express.js)
- ❖ **Frontend:** JavaScript, HTML/CSS, React, Angular
- ❖ **Databases:** MySQL, PostgreSQL, SQLite, Firebase (Firestore)

INFRASTRUCTURE & DEVOPS

- ❖ **Server & deployment:** Nginx, Apache, Gunicorn, Docker, Git, Linux (Ubuntu/Debian)
- ❖ **Cloud & hosting:** AWS (EC2, S3 basics), Heroku, Azure (basic exposure)
- ❖ **Monitoring & tools:** Syslog, SNMP basics, Redis caching, automated backups

SECURITY & RELIABILITY

- ❖ Secure coding practices and input validation
- ❖ Role-based access control (RBAC) and least privilege principles
- ❖ Performance optimisation and uptime management (99.9% SLA experience)

SOFT SKILLS

- ❖ Full-stack ownership (requirements → design → deployment → support)
- ❖ Problem-solving and debugging under pressure
- ❖ Cross-functional collaboration and agile methodologies
- ❖ Clear technical communication and documentation
- ❖ Mentoring and knowledge sharing

CERTIFICATIONS

- ❖ **O.G Tech Full-Stack Developer Certification**
- ❖ **ALX Africa | Software Engineer Program**
- ❖ **ALX Africa | AI Career Essentials**

PROJECT HIGHLIGHTS

Learning Management System (LMS) – Production

- ❖ Built a full-stack Flask application for a 300+ user college.
- ❖ Features: user authentication, role-based dashboards, secure data storage, file uploads.
- ❖ Deployed on Nginx + Gunicorn with Redis caching; 40% performance improvement.
- ❖ **Skills used:** Python, Flask, SQLAlchemy, MySQL, Redis, Nginx, Bootstrap.

Secure Payment & Dues Collection Portal

- ❖ Designed and deployed a payment processing system for a 200+ member community.
- ❖ Integrated secure payment API and automated reconciliation.
- ❖ Improved compliance by 60% through transparent, user-friendly interface.
- ❖ **Skills used:** Python backend, JavaScript frontend, secure API design, database design.

Online Voting & Quiz Platform

- ❖ Full-stack platform for 200+ active users with zero security incidents.
- ❖ Features: real-time results, secure authentication, audit trails.
- ❖ **Skills used:** Python, JavaScript, MySQL, authentication, data integrity.

Database Optimisation & Query Analysis Tool

- ❖ Built a Python utility using SQLAlchemy to analyse and optimise slow SQL queries.
- ❖ Achieved 30% average response time reduction across multiple database platforms.
- ❖ **Skills used:** Python, SQL, performance analysis, SQLAlchemy ORM.

Infrastructure Automation & Containerisation

- ❖ Deployed Dockerised staging and production environments.
- ❖ Reduced manual server configuration overhead by 70%.
- ❖ Automated backup and health monitoring scripts in Bash/Python.
- ❖ **Skills used:** Docker, Bash scripting, Linux, automation, CI/CD principles.

ADDITIONAL INFORMATION

- ❖ **GITHUB:** <https://www.github.com/vickkykruz>
- ❖ **PORTFOLIO:** <https://www.vickkykruzprogramming.dev>
- ❖ **LANGUAGES:** English (fluent)
- ❖ **VISA STATUS:** UK Student Visa (MSc student); open to sponsorship discussions post-graduation.