

ARNOLD ONCHIEKU KEBASO

BSc Computer Science, Certified AWS Cloud Practitioner

DevOps Engineer | Full-stack Developer

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Professional Profile

Full stack developer with a passion for technology, secure DevOps and data-driven innovation. Designed full-stack solutions that ingest, analyze and visualize real-time data for disaster-response, fintech and IoT use-cases. Adept at evaluating control gaps, automating tests and translating complex technical findings into clear business language.

Work Experience

Software Developer Intern – SpearheadINC, Nairobi Jun 2024 – Sep 2024

- Containerized IoT services on AWS ECS; infrastructure-as-code cut deployment time 60 %.
- Set role-based access controls that blocked unauthorized MQTT traffic.
- Created Athena + Grafana cost dashboards, giving finance early spend alerts.

Freelance Tester – Applause uTest (remote) Nov 2023 – Jan 2025

- Completed 30+ test cycles for banking and e-commerce apps; logged half of all critical defects.
- Built Python tools that bundle logs and screenshots, saving auditors eight hours per cycle.
- UI Validation: Tested and optimized frontend workflows for web/mobile apps, resolving 50+ UX bottlenecks related to form submissions and payment flows.
- Cross-Device Testing: Ensured consistent user experiences across browsers and devices using Selenium.

Projects

Flood Alert System | Dec 2024 – Apr 2025

- Designed a React.js frontend, Node.js backend and mySQL database.
 - Delivers a live incident map plus SMS / email alerts, cutting incident-check time by 50 %.
- Live Link: [FloodAlertSystem](#)

Clinic Management System | April – May 2025

- Scope: 18 modules (Patients, Doctors, Nurses, Appointments, Prescriptions, Billing) with MySQL backend and WPF front-end
- Architecture & UX: MVVM pattern, real-time validation, dependency-aware navigation for non-technical users
- Data Layer: ADO.NET helper + stored procedures, asynchronous CRUD (25% faster operations, 90% fewer UI freezes)
- Security: Role-based login gating access to dashboard features
- Github: [Clinic Management System](#)

NguvuConnect Mentorship Platform | Apr 2024

- Built a Flask backend with SQLAlchemy and integrated AI-driven mentor matching and chatbot.
- Designed icon for low-literacy users raising adoption by 40 %

GitHub: [NguvuConnect](#)

Laundry Management System | Jan 2024 – Mar 2024 Java

- Built a Java-based web application using Java Server Pages (JSP) for dynamic UI and Java Servlets to design RESTful APIs, ensuring seamless communication between frontend and backend.
- Integrated MySQL for structured data storage, optimizing query performance for real-time laundry booking and status tracking.
- Implemented M-Pesa STK Push API for secure in-app payments, automating payment confirmations and reducing manual processing by 90%.

GitHub: [LaundryWebApp with Mpesa STK Push](#)

Professional development and certification

- AWS Certified Cloud Practitioner: [AWS Certified Cloud Practitioner](#)
- IBM Web Development Certification: [IBM Web Development](#)
- Ajira Digital Program: [Ajira Digital Program](#)
- ALX Professional Foundations (Agile workflows)

Education and Qualifications

Bachelor of Science, Computer Science, Egerton University

Relevant Coursework: Software Architecture, Database Systems, Networking Fundamentals, Operating Systems, Database Management, Cloud Computing, Linux Systems, Scripting, Software Engineering, AI Fundamentals

Skills and competency

Software & Data

- JavaScript / TypeScript, Java, Python, SQL, C#
- React, NestJS, Spring Boot, Swift
- Power BI, Grafana, Selenium, Postman, git

Cloud & DevOps:

- AWS, GCP, Docker, Kubernetes, CI/CD (Jenkins, Prometheus, Grafana), Bash/Python Scripting.
- Terraform & CloudFormation for infrastructure as code

Monitoring:

- Prometheus, Grafana, AWS CloudWatch

Leadership & Community

- 2nd place, Kenya Red Cross Tech-for-Good Hackathon 2024: IoT disaster-alert prototype.
- Peer mentor, Ajira AWS Cohort 20 Group: ran Cloud Practitioner study group with 85 % pass rate.