ISAAC KARANJA
| Software Developer | DevSecOps Enthusiast | Cloud & Network Engineer
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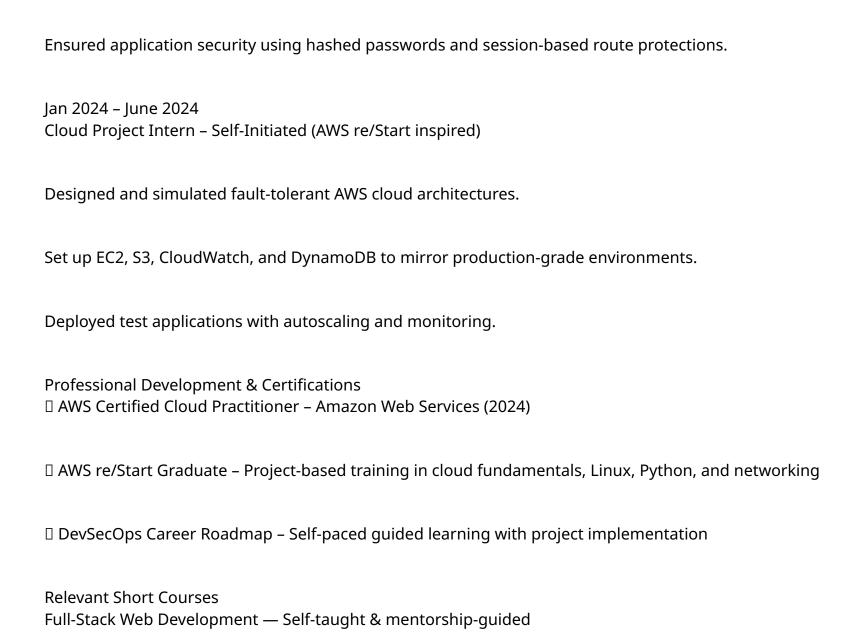 GitHub | LinkedIn

Professional Profile
Passionate Software Developer and AWS Certified Cloud Practitioner with strong interests in DevSecOps, Ethical Hacking, and Network Engineering. Adept in building secure, scalable web applications using Python, JavaScript, Docker, and Kubernetes. Proven experience developing full-stack systems, including booking platforms and real-time communication tools using WebRTC. Currently exploring advanced cybersecurity practices while contributing to open-source and freelance projects.

Career Summary / Experience
July 2024 – Present
Freelance Full-Stack Developer
Murang'a, Kenya

Developed and deployed a student house booking platform with role-based access (admin, student, landlord), payment integrations (M-Pesa, Stripe, PayPal), and automated booking confirmation.

Integrated Flask backend with HTML/CSS, Tailwind, and JavaScript frontend.

Added real-time video and chat functionality using WebRTC and RTCDataChannel.

Ensured application security using hashed passwords and session-based route protections.

Jan 2024 – June 2024
Cloud Project Intern – Self-Initiated (AWS re/Start inspired)

Designed and simulated fault-tolerant AWS cloud architectures.

Set up EC2, S3, CloudWatch, and DynamoDB to mirror production-grade environments.

Deployed test applications with autoscaling and monitoring.

Professional Development & Certifications
 AWS Certified Cloud Practitioner – Amazon Web Services (2024)

 AWS re/Start Graduate – Project-based training in cloud fundamentals, Linux, Python, and networking

 DevSecOps Career Roadmap – Self-paced guided learning with project implementation

Relevant Short Courses
Full-Stack Web Development — Self-taught & mentorship-guided

April 2023 – Sept 2023

Frontend: HTML, CSS, Tailwind CSS, JavaScript, ReactJS

Backend: Python (Flask/Django), REST APIs, MySQL

Methodologies: Agile, DevOps CI/CD, GitHub, Docker

Education
B.Sc. in Information Technology (Ongoing)
Murang'a University of Technology

Student Project: Developed restaurant ordering and room booking platform

Extracurriculars: Member of tech clubs and coding bootcamps

Research focus: Combining cloud computing and cybersecurity in real-world applications

Skills & Competencies
Languages & Frameworks: Python, JavaScript, Flask, Django, ReactJS

Cloud & DevOps: AWS (EC2, S3, CloudWatch, Lambda), Docker, Kubernetes

Databases: MySQL, MongoDB, PostgreSQL, MariaDB

Security: Password hashing, role-based access, Linux hardening basics

Networking: Basic knowledge in network protocols, routing, VPN

Tools: GitHub, Visual Studio Code, Linux CLI

Soft Skills: Problem-solving, adaptability, collaboration, continuous learning

Projects Highlights
House Booking Web App: Full-featured web app with user roles, payments, and admin dashboard.

ReconnectHub: Flask-based web app helping users reconnect with lost friends.

Peer-to-Peer Video Chat App: Secure WebRTC-based app with chat and session link sharing.

Kali Linux Simulations: Ethical hacking practice in a home-lab VM environment.