

SHARON ISABELA WANZALA

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Motivated and technically capable Software Engineer with a great foundation in backend development, cloud computing, and secure API systems. Certified AWS Cloud Practitioner with hands-on experience in gRPC, RESTful APIs, WebSocket streams, and API security. Proven success in automating onboarding processes, troubleshooting integration issues, and supporting customer-facing systems in production environments. Adept at working in agile teams, managing API documentation, and leveraging DevOps practices to build scalable, resilient solutions.

EDUCATION

BSc in Applied Computer Science

Kisii University

- Focus: Algorithms, Cryptography, Software Development, System Design

AWS re/Start Program

eMobilis Mobile Technology Institute | Jan – Apr 2025

- Focus: EC2, S3, IAM, VPC, Lambda, Python, Linux, Shell scripting, cloud security

Bitcoin and Lightning Networks

Dada Devs | Feb 2025 – May 2025

- Focus: Bitcoin and Lightning Network, Decentralized Payments, API Integration for Fintech Applications,

Professional Foundations Program

ALX | Mar 2025 – June 2025

- Modules: Team Communication, Agile Collaboration, Personal Branding, Leadership

CERTIFICATIONS & TRAINING

- AWS Certified Cloud Practitioner – **AWS**
- API Security Fundamentals – **APISec University**
- Career Essentials in Software Development – **Microsoft/ LinkedIn**
- Kubernetes and Cloud Native Essentials - **The Linux Foundation**
- Python Essentials & Data Analysis – **Cisco**
- React.JS – **Udemy**

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, Python
- **API Technologies:** REST/JSON, REST/XML, gRPC, WebSocket, SOAP
- **API Tools & Testing:** Postman, Swagger, curl, API documentation
- **Frameworks & Libraries:** Node.js, Express.js, React.js, Next.js, Django
- **Databases:** Firestore, MongoDB, MySQL, SQLite
- **Cloud/DevOps:** AWS (EC2, S3, IAM, VPC, Lambda, CloudFormation), Docker, Kubernetes, Linux
- **Version Control & Collaboration:** Git, Agile/Scrum methodologies
- **Monitoring:** Dynatrace, Jira, cloudwatch
- **Integration Concepts:** JWT/OAuth, Microservices, Rate Limiting, API Gateway patterns.

WORK EXPERIENCE

Backend Developer (Freelance)

Remote | 2023 – Present

- Built and maintained RESTful APIs for client projects.
- Worked with Firestore, MongoDB, and SQLite for optimized data handling.
- Integrated secure auth using JWT and OAuth protocols.
- Resolved API performance and onboarding issues for clients using Postman and Swagger
- Deployed projects with cloud-first design and containerization knowledge.

DevOps Intern – IronRim

Remote | Jan 2025 – Present

- Supported infrastructure observability, automation and setup for monitoring API-based microservices
- Assisted with incident response, API uptime tracking, and log analysis
- Identified and resolved common onboarding bottlenecks through scripting and documentation

Monitoring Officer / Controller – SGA Security

Nairobi, Kenya 2024 – Feb 2025

- Oversaw live system tracking for cargo/fleet across East and Central Africa.
- Reduced incident rates via proactive alerts and optimized monitoring.
- Automated reporting and handled client data analysis/reporting.

SAMPLE PROJECTS

Lightning Network Integration App

gRPC, LND API, Bitcoin Lightning, REST APIs

- Integrated gRPC and REST APIs for decentralized payments and Lightning wallet functionality.

🔗 GitHub: <https://github.com/isabell-ah/lightning-network-app.git>

Subscription Tracker App

Node.js, Express, MongoDB, JWT, Nodemailer, Webflow

- Robust backend for managing and reminding users of subscriptions with automated customer onboarding and notification workflows

🔗 [GitHub](#)

Library Management API

Node.js, Express, SQLite, JWT, Rate Limiting

- Backend system with authentication and access control for a library platform.

🔗 [GitHub](#)