Samillah MUTONI

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GitHub | LinkedIn

SUMMARY

Software Engineering student with a strong foundation in networking, full-stack development, and DevOps. Experienced in building scalable Java-based systems using MySQL, Swing, RMI, and MVC/DAO design. Proficient in Java, Python, SQL, Docker, and GitHub-based workflows. Passionate about software architecture, security integration, and delivering real-world solutions. Actively contributing to open-source projects while preparing for a future in Cybersecurity and Secure Software Engineering.

EDUCATIONAL BACKGROUND

Bachelor in Software Engineering   **(Ongoing)**

Adventist University of Central Africa - Kigali , Rwanda

- **Courses:** Data Structures, Algorithms, Software Design, Web Development, Databases, OOP
- **Math:** Calculus, Linear Algebra, Probability & Statistics

High School Diploma in Networking   *(Graduated: August 2022)*

APPEGA Gahengeri TVET School – Rwamagana, Rwanda

- **Courses:** Routing & Switching, LAN/WAN, IP Services, Wireless Tech, Windows Server

TECHNICAL SKILLS

- **Programming:** Java, Python, HTML/CSS, SQL
- **Frameworks & Tools:** Swing, JDBC, Docker, Traefik, Git, GitHub
- **Databases:** MySQL
- **Networking:** Cisco Packet Tracer, Routing & Switching, LAN setup
- **DevOps & OS:** Linux (Kali, Ubuntu), Shell scripting, Nginx
- **Data Analytics & Visualization:** Power BI, SQL (queries & aggregation), Dashboard Design, Data Cleaning & Preprocessing

PROJECTS

ParkSphere

A distributed parking management system using Java Swing, MySQL, and RMI.
Features session handling, OTP login, PDF report generation, MVC & DAO design.

SecureShare(ongoing)

Final-year cybersecurity project for secure file sharing and access control.
Implements zero-trust architecture, encryption, and role-based access.

DevOps Deployment System

Containerized static and dynamic sites using Docker, Traefik, and HTTPS routing.
Includes Nginx setup, firewall security, and load balancing.

SecureNet – Network Threat Detection System

Machine learning–based cybersecurity project for real-time anomaly detection.
Implements supervised models (Random Forest, XGBoost, LightGBM) with accuracy, precision, recall, and F1-score evaluations. Built interactive dashboards for threat intelligence and monitoring.

Order Management System – PL/SQL (Team Project)

Developed in a team using PL/SQL to manage customer orders, inventory, and transactions. Implemented triggers, stored procedures, and relational integrity for enterprise-grade data handling.

PROFESSIONAL EXPERIENCE

IT Technician intern

MFI DOCUMENT SOLUTIONS (R) LTD   April 2022 - June 2022
- Installed and maintained desktops/laptops (hardware/software)
- Resolved network issues (wired/wireless) and supported network printers
- Provided 1-on-1 technical assistance to staff

Network Technician intern

Broadcasters of ICT(BICT)   June 2019 - August 2019
- Configured Cisco routers and switches (live + Packet Tracer)
- Installed CCTV systems and Windows Server OS
- Created twisted pair network cables

CERTIFICATE

Network Society : NetOps I certificate	July 2024
Network Society : NetOps II certificate	May 2024
ALX : AI Career Essentials	July 2024
CISCO Networking Academy: Operating System	November 2024
CISCO Networking Academy: Networking Basics	November 2024

SOFT SKILLS

Team Collaboration	Communication	Problem Solving	Adaptability

INTERESTS & HOBBIES

Cyber security	Puzzle solving	Reading	Volunteering

LANGUAGES

English - Expert	Kinyarwanda - Native