

RUSAGUSA Jean Felix

Software Engineer | Cybersecurity Specialist | Cloud Architect

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EDUCATION

Mount Kigali University (*September 2024 - Present*)

Bachelor of Business in Information Technology (BBIT)

Relevant Coursework: Digital Electronics and Electrical Circuits, Data Structures and algorithms, Foundations of Programming, Internet of Things, Modeling and simulation using python.

HarvardX (*May 2024 - Present*)

CS50: Introduction to Computer Science

Key Topics: Abstraction, Algorithms, Data Structures, Encapsulation, Resource Management, Security, Software Engineering, Web Development.

CS50: Introduction to Programming with Python

Key Topics: Functions, Variables, Conditionals, Loops, Exceptions, Libraries, Unit Testing, File I/O, Regular Expressions, Object-Oriented Programming.

ALX Africa (*January 2025 - Present*)

AWS Cloud Computing (In Progress)

Key Topic Covered: AWS Solutions Architect.

Rwamagana Leaders' School (*January 2020 - June 2023*)

A2 Diploma in Mathematics, Physics, and Computer Science (MPC)

Key Topics: Calculus, Quantum physics, Networking

TECHNICAL SKILLS

- **Programming Languages:** Java (Advanced), Python (Advanced), C++ (Advanced), C (Intermediate), JavaScript (Intermediate, React).
 - **Operating Systems:** Windows (XP/Vista/7/8/10/11), Linux.
 - **Cloud & Security:** AWS, firebase, Cybersecurity Best Practices, Network Security.
 - **Web Development:** HTML, CSS, JavaScript, React.
 - **Internet of Things (IoT):** Arduino (certified), C++, C, raspberry pi (certified), micropython
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PROJECTS

- **Elevator Simulation in Python**
Simulated a 10-floor elevator system using Python, incorporating random floor requests to model real-world elevator behavior. Utilized object-oriented programming and queue management to handle multiple passenger interactions efficiently
 - **IP Address Change Handler – C Language** (https://github.com/rusagusa/app.loc_apdater)
Developed a lightweight system tool in C to monitor real-time IP address changes on a Linux and windows machine. Leveraged low-level network interface querying to detect, log, and respond to IP modifications effectively.
 - **Raspberry Pi-Based Thermometer System** (https://github.com/rusagusa/rp2w_thermalmeter)
Engineered a temperature monitoring solution using Raspberry Pi and DS18B20 digital sensors. Implemented Python scripts to read sensor data, log temperature readings periodically, and prepare the system for potential automation tasks.
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LEADERSHIP EXPERIENCE

Math and Science Club (President) (1 Year)

- Led a team of 30 students in organizing weekly challenges and discussions on advanced math and science topics.
- Conducted workshops to improve problem-solving and analytical skills among members.

High School Sports Department (Sports Prefect)

- Coordinated all sports activities within the school, including inter-school competitions.
 - Managed and trained school teams, organized inter-class tournaments, and promoted student participation in sports.
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CERTIFICATIONS & COURSES

- AWS Cloud Computing (ALX Africa)
 - Arduino
 - Raspberry pi
 - Ethical hacking
 - CS50: Introduction to Programming with Python (HarvardX)
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ADDITIONAL INFORMATION

- Passionate about cybersecurity, cloud computing, and software engineering.
- Enthusiastic about problem-solving, innovation, and collaborative tech projects.

- Open to internship and work opportunities in software development, cybersecurity, and cloud computing.
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