

Uwayo Olga

Software Engineering

Kigali - Rwanda

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[LinkedIn](#) | [Github](#) | [YouTube](#)

EDUCATION

Adventist University of Central Africa (AUCA)

Bachelor of Science in Software Engineering

Expected Graduation: November 2026

Relevant Coursework: OOP, Data Structures, Databases, System Design, Full-Stack Development, Software Project Management.

Capstone: Developed an IT system to support the implementation of Rwanda's school feeding policy, including features for data tracking, reporting, and monitoring, helping schools manage feeding programs efficiently

Advisor: Dr. Pacifique Nizeyimana

Gashora Girls Academy Of Science & Technology

Highschool Diploma

January 2019 - June 2022

Grade: 4.0

EXPERIENCE

AUCA INNOVATION CENTER, Kigali — Full Stack Engineer

August 2024 - July 2025

- Worked with Mastercard Foundation during the community outreach program. We visited 10 secondary schools across Rwanda to introduce students to Big Data.
- Built an IT system that supports Rwanda's school feeding policy by helping schools and communities track, monitor, and report on feeding programs more effectively.
- Developed a School Dropout Reduction System using attendance and performance analytics with automated alerts to support at-risk students.
- Gained hands-on experience in software development, database management, and user-centered design.

AUCA , Kigali — IT Campus librarian

January 2023 - PRESENT

- Managed and maintained the library's digital resources to ensure smooth access for students and staff.
- Assisted students and faculty with research, database queries, and digital resource navigation.

SKILLS

Languages & Programming:

Java, JavaScript, TypeScript, Python, C, SQL, R

Data Science: Data Wrangling & Cleaning, Data Visualization, Exploratory Data Analysis, Feature Engineering, Supervised & Unsupervised Machine Learning, Ensemble Modeling,

Backend & Frameworks:

Node.js, Spring Boot, Firebase, Django

Mobile Development: Flutter, React Native

Tools & Platforms: Git, VS Code Debugger, Postman

Testing: JUnit, Postman, Unit Testing, API Testing

Software Engineering: Data Structures, API Design & Integration, CI/CD (Basics), Agile & Scrum

DevOps: Docker (Basics), Cloud Deployment (Render/Netlify/Heroku)

LANGUAGES

Kinyarwanda

English

- Implemented software and IT tools to improve library operations and automate routine tasks.
- Provided technical support for library systems, including troubleshooting access issues and maintaining data integrity.

Caystard Group Ltd, Remote — Software developer Intern.

June 2025 - November 2025

- Designed and deployed 4+ critical features for high-traffic Android applications, primarily utilizing Kotlin, integrating RESTful APIs, and achieving 97% test coverage for responsive UI components
- Conducted performance optimization that reduced app load time by 15% and successfully debugged complex modules, enhancing user experience for over 5,000 active users

TheGYM, Kigali — Software development trainee program.

November 2024 - December 2025

Participating in a 12-month software development traineeship, working on real-world projects under the mentorship of international developers.

PROJECTS;

IoT-Based Flood Alert System (2023):

- Developed a hybrid model using graphs in algorithms like Dijkstra's Algorithm and priority queues to process sensor data, achieving a real-time alert latency of less than 10 seconds.
- Built an end-to-end IoT system, utilizing Arduino/Raspberry Pi microcontrollers and Python for data processing. Successfully deployed and tested 3 sensor units in the Ngororero and Musanze districts
- Presented my work at Hanga Pitchfest 2023.

School Feeding System | [GitHub Repo](#) AUCA Innovation Center (2025)

- Developing a full-stack software using Spring Boot with Java to track meal distribution by automating reporting across public schools, enhancing resource management efficiency
- Awarded 2nd place in the AUCA Innovation Center Hackathon for innovative educational impact.

Escrow Chain Alliance | [GitHub Repo](#) Cardano Hackathon | Umurava (2025)

- Developed a full-stack blockchain-based rental management platform using React, Node.js, and Cardano smart contracts. Implemented secure escrow payments, decentralized dispute resolution, and role-based dashboards for tenants, landlords, and admins.

Volunteering

Rwanda Computing Olympiad
Data Structures Coach
2023 - PRESENT

- Guiding students through algorithms and competitive programming challenges.

Idebate Rwanda
Public Speaking Coach
2022 - 2023

- Coached secondary school students in public speaking, debate structure, and critical thinking
- Mentored students to improve confidence, clarity, and persuasive communication in competitive and academic settings
- Facilitated public speaking and leadership training sessions for youth during a summer camp program

Certificates

Applied Data Science Lab -
WorldQuant University

Data analytics - Analyst Builder

Data Analysis with Python -
freeCodeCamp

Graduate Bridge Program -
Carnegie Mellon University Africa

Mobile App Development -
Technovation

Networking Essentials - CISCO

Python Core - Sololearn