

Himbaza Nshuti Edisthon

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PROFILE

Software Engineering student at AUCA and **A2SV Software Engineering Trainee** with strong foundations in **data structures, algorithms, backend development, and iOS development**. Apple-certified Swift developer experienced in building **Spring Boot applications, relational databases, and scalable backend systems**. Interested in software engineering internships where I can apply problem-solving and system design skills.

TECHNICAL SKILLS

Languages: Python, Java, Swift, SQL, C

Backend: Spring, Spring Boot, Spring Security, REST APIs

Mobile: iOS Development (Swift)

Databases: MySQL, PL/SQL, JPA/Hibernate

Frontend: HTML, CSS, Vite.js

Core CS: Data Structures & Algorithms, OOP, Debugging

Tools: Git, GitHub, Linux

PROJECTS

AeroFleetHub — Fleet Management System (Spring Boot)

- Built a **Spring Boot fleet management platform** for drones and aircraft.
- Implemented full **CRUD operations** using Spring Boot and Spring Data JPA.
- Designed **entity relationships** for vehicles, schedules, maintenance, and users.
- Implemented **role-based user management and permissions**.
- Developed modules for:
 - Vehicle tracking
 - Flight scheduling
 - Maintenance monitoring
 - Sales and lease transactions
- Modeled a **Rwandan location hierarchy** for operational data organization.

- Applied **MVC architecture and relational database design principles**.

LocalCart — iOS Marketplace Application (SwiftUI)

Mobile Application Development Project

- Developed a **native iOS marketplace application** connecting buyers with local sellers.
- Built the user interface using **SwiftUI** and implemented app logic using **Swift**.
- Integrated **Firebase Authentication** for secure user registration and login.
- Used **Cloud Firestore** as a **real-time NoSQL database** for product and order data.
- Implemented **product listing, search, cart, and order management features**.
- Designed a **seller product management module** for uploading and editing inventory.
- Applied **MVVM architecture principles** and **serverless backend integration**.

Maternal & Newborn Health Tracker — Android Mobile Application

Healthcare Software Project

- Developed an **Android healthcare tracking application** to support maternal and newborn care from **ANC to PNC**.
- Implemented **patient registration, appointment scheduling, encounter tracking, and newborn follow-up modules**.
- Integrated a **FHIR-based backend (HAPI FHIR Server)** for healthcare data interoperability.
- Used **Retrofit2** for API communication and **Firebase Cloud Messaging (FCM)** for appointment reminders.
- Designed **offline data storage with synchronization** when connectivity is restored.
- Built application features using **Java, Android Studio, and Gradle**, following **modular project structure and model-based design**.
- Created **system design artifacts** including use case diagrams, class diagrams, and data flow diagrams.

WORK EXPERIENCE

Software Engineering Trainee — A2SV

Jan 2026 – Present

- Participate in intensive training focused on **data structures and algorithms using Python**.
- Solve algorithmic problems regularly with attention to **time and space complexity**.
- Implement structures such as **arrays, stacks, queues, hash maps, trees, and graphs**.
- Practice **clean code, debugging, and solution optimization**.
- Engage in **peer learning sessions and technical discussions**.

Course Assistant — Java Programming, Adventist University of Central Africa (AUCA)

June 2025

- Supported students in understanding **Java programming and OOP concepts**.
- Assisted with **debugging code and explaining programming logic**.
- Helped prepare instructional materials and exercises.
- Guided students during **hands-on coding activities**.

EDUCATION

Bachelor of Information Technology (Software Engineering)

Adventist University of Central Africa | Jun 2023 – Present

- Relevant CourseWork: Computer Maintenance, Database Management & Development with PL/SQL, Management Information System, Operating Systems, Computer Networks, Java Programming, Software Project Management, Linux Programming

CERTIFICATIONS

- **Apple App Development with Swift Certification**
- **Frontend Development Basics**, UpSkills Hub(2025)
- **Advanced Network Operations Certificate (1.0 & 2.0)**, Internet Learning Society(2024)

LANGUAGE

- Fluent in English
- Fluent in Kinyarwanda
- Fluent in French