

# Afsa Umutohiwase

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## SUMMARY

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I am an undergraduate student at the African Leadership University enrolled in Software Engineering, seeking a job or internship. Extremely resourceful with strong problem-solving skills, Thrive working in challenging environments, and Excellent communication skills.

## EDUCATIONAL BACKGROUND

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### African Leadership University(ALU) – Kigali, Rwanda

May 2023 – Present

A bachelor of software engineering is expected in May 2026.

- Mastercard Foundation Scholar: Prestigious full scholarship awarded to students with outstanding leadership potential and a commitment to promoting sustainable development within their communities.
- Member of ALU School of Wildlife Conservation.

### African Leadership Xcelerator(ALX) - Kigali, Rwanda

May 2023 - Dec 2023

A Data Analytics tech program.

Skills gained:

- Skills Gained: Programmatic Thinking, Problem-Solving, Gathering and Analyzing Data, Analytical Programming, Data Visualization.

### FAWE Girls' School – Kigali, Rwanda

Jan 2015 – Jul 2021

High School Diploma in Mathematics, Physics and Computer science.

- Achievements: Second Place for Academic Achievement Award; Class Representative; Organized and managed elections for the school committee; Entertainment Prefect in the school committee.

## PROFESSIONAL WORK EXPERIENCE

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### Data Scientist Intern

Jan 2024 – Present

#### Pontem Analytics – Kigali, Rwanda

- Developed PyPontem, a Python-based tool for automating OLGA simulation post-processing and plotting, which significantly enhanced workflow efficiency for engineers and analysts.
- Utilized hydraulic and thermodynamic software tools to conduct steady-state and transient simulations, providing crucial insights for field operations.
- Performed steady-state analysis to determine operating conditions essential for developing hardware specifications.
- Contributed to the creation of internal software tools and frameworks, optimizing processes and improving efficiency in executing data analytics projects.

### Data Analyst Intern

Sept 2024 – Nov 2024

#### Conserve Global – London, UK

- Conducting a comprehensive review of various monitoring technologies integrated into Earth Ranger, evaluating use cases, costs, and equipment requirements to inform decision-making on new opportunities.
- I am developing a base statistics database for Conserve's countries of operation, including critical data on tourism, GDP, socio-economic conditions, and value chains while creating a library of references and research papers.
- I am assisting in gathering and synthesizing GIS data for new conservation project sites, such as the Niassa National Reserve in Mozambique and the Suguta Valley in Kenya, to support effective conservation planning.
- Conducting research, establishing a reference library of useful environmental and biological resources, and developing landscape-specific reports to provide insights into conservation needs.
- Collaborating with the Conserve team, participating in weekly meetings to discuss progress, challenges, and findings, and contributing to the creation of final reports on key conservation landscapes.

## Promotions Team

Nov 2022 – Mar 2024

### Hollanda Fairfoods (WINNAZ) – Kigali, Rwanda

- Developed and executed strategic promotional campaigns that significantly enhanced brand visibility and drove consumer engagement.
- Led direct sales operations, actively engaging with customers, addressing their needs, and successfully closing sales transactions.
- Analyzed market trends and customer feedback to refine promotional strategies, resulting in increased product awareness and sales performance.
- Collaborated with team members to coordinate marketing efforts and optimize promotional activities, contributing to the overall growth of the company's market presence.

## EXTRACURRICULAR ACTIVITIES

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### The City of Kigali Youth Volunteers - Kigali, Rwanda

Mar 2020- Present

- We created awareness during COVID-19, which helped stop its spread.
- We distributed food relief to families affected by the lockdown.
- We carried out victorious campaigns against malnutrition by building over 500 kitchen farms.
- We constructed 16 houses for the needy.
- We mobilized over 300 people to use Ejoheza's long-term savings scheme.

## SKILLS

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|---------------------------|-------------------------|----------------------------|
| • Driving (class B)       | • Adaptability-advanced | • Computer Skills-advanced |
| • communication- advanced | • Teamwork- Advanced    | • Leadership-Advanced.     |

## LANGUAGES

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- English–Fluent
- Kinyarwanda - Mother tongue.