

# MIZERO REINE

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## OBJECTIVE

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Motivated Software Engineering student and developer with hands-on experience in building web and mobile applications, deploying APIs, and developing machine learning models. Passionate about using technology to improve access to digital services and solve real-world challenges in Rwanda.

## EDUCATION

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**Bachelor of Sciences**, African Leadership University

Expected 2027

Relevant Coursework: Software Engineering

Specialization: Machine Learning

## Experience

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Software Development Training, The Gym

2024 - now

## Technical Skills

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**Languages:** JavaScript, TypeScript, Python, Dart

**Frameworks & Libraries:** React, Node.js, Flutter, TailwindCSS

**Databases:** Firebase.

**Tools:** Git/GitHub, Render, REST APIs, Swagger UI

**Machine Learning:** Linear Regression, Decision Tree, Random Forest

## Soft Skills

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Leadership skills

Communication skills

Strong problem-solving mindset

Team collaboration & communication

Passion for citizen-centered digital solutions

## PROJECTS

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**Kinyarwanda Courtesy Learning App (Prototype)** (React, MBAZA TTS API)

- Designed an educational app to help parents teach children courtesy communication.
- Features: interactive flashcards, quizzes, and text-to-speech integration.

[learnkinyarwanda.netlify.app/](https://learnkinyarwanda.netlify.app/)

### **Nyandungu Visits Web App** (*Node.js, Express, SQLite3, EJS*)

- Developed a web app for managing tourism visits and bookings at Nyandungu Eco-Park.
- Implemented user authentication, CRUD operations, and dynamic templates.

<https://nyandungu-visits-7e004931aa57.herokuapp.com/>

### **Water Usage Forecasting ML Project** (*FastAPI, Flutter, ML Models*)

- Built ML models to predict water usage efficiency based on weather data.
- Deployed backend using FastAPI on Render; created a Flutter app client to consume API.

[https://linear-regression-model-tqfq.onrender.com/docs#/default/predict\\_water\\_efficiency\\_predict\\_post](https://linear-regression-model-tqfq.onrender.com/docs#/default/predict_water_efficiency_predict_post)

### **EXTRA-CURRICULAR ACTIVITIES**

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Learning languages. French specifically

Volunteering for The Gym Preparatory Program at Harambe Kimisagara Center

April 2025 - today

Learning how to swim

### **LEADERSHIP**

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- Prefect at Maranyundo Girls School.

### **References**

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- **George Kategaya, The Gym Project Manager**

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