

# MUGISHA Jonathan

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## Professional Summary

Software Engineering student at African Leadership University with a strong foundation in database management, backend development, and UI/UX design. Skilled in Python, SQL, and web technologies with hands-on experience building and deploying applications such as **SnapSpend**, a Flask-based expense management system integrated with PostgreSQL and AI-powered OCR. Known for combining technical expertise with creativity in solving real-world problems. Eager to contribute to data-driven teams and grow as a database engineer.

## Education

**KIGARAMA TVET SCHOOL, Ngoma, Eastern Province**—*secondary education*

Jan 2020 - Sept 2023

I graduated with a secondary diploma in software development

**AFRICAN LEADERSHIP UNIVERSITY, KIGALI CITY**- *University*

Sept 2024 - August 2027

I am studying to acquire a degree in software engineering.

## Skills

**Programming and database skills:** Python, SQL, PHP, HTML, CSS, and JavaScript (basic).

**Tools & Frameworks:** Flask, Docker (basic), Git/GitHub, ERD tools (Draw.io), Canva, Adobe.

**Soft Skills:** Problem-solving, teamwork, adaptability, creativity, leadership

## Projects

**SnapSpend – Expense Tracking Web Application** | [GitHub](#)

- Developed a **Flask-based web app** that extracts invoice data using OCR (RapidAPI) and AI (Gemini API).
- Designed and managed a **PostgreSQL database with Supabase** for storing users, expenses, and invoices.
- Implemented **user authentication (login/register)** and a dashboard to view/manage expenses.
- Focused on **clean backend design, error handling, and database optimization** for real-world use.

**MyRide—Ride Matching Web Application (Team Project)** | [GitHub](#)

- Collaborated in a team to design and implement a **Python + MySQL ride-matching system** connecting drivers and passengers.
- Contributed to **database schema design** for users, trips, and bookings, ensuring efficient data storage and retrieval.
- Assisted in implementing **ride cost calculation** based on geolocation distance (**geopy**) and booking logic.
- supported the database's development and connection.
- enhanced communication, collaboration, and version control procedures while using a common GitHub repository.

## CERTIFICATE

## VERSION CONTROL, COURSERA

I took this course to learn more about version control and team collaboration on a single project.

[link](#)

## DIGITAL COMPETENCE PASSPORT

This course helped me enhance my digital skills, particularly in office suites, desktop computing, and IT security.

[link](#)

## LEADERSHIP: YOUR PATH SIGNIFICANCE

Participating in this gave me more insight into how I can develop my leadership knowledge and skills.

[link](#)

## AI CAREER ESSENTIAL: ALX

This course helped me know more about prompt engineering and how I can use AI effectively.

[Link](#)

## PYTHON: University of Michigan Coursera

These courses helped me build a strong knowledge of Python, introducing me to one of the most powerful and versatile programming languages.

[Intro to python](#)

[Accessing Web Data](#)

[Data structures](#)

[Using Databases with Python](#)

## Experience:

### Digital Marketing Lead

*Tech Tonic Africa – Launchpad Scholarship Program | Dec/2024*

- Designed and created engaging digital ads and posters to promote the scholarship program.
- I gained hands-on experience in digital marketing strategies and tools, working closely with diverse teams.
- Developed a strong interest in digital marketing, sparking a desire to further explore and grow in this field.

## Interests

Database optimization, backend development, digital innovation, AI integration, event design, and traditional dance.