

# WADI MKWEZA

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## Professional Summary

A recent and ambitious computer science graduate specializing in full-stack web development and machine learning. Having completed all coursework for a Bachelor of Education in Computer Science, I have a proven ability to build and deploy data-driven applications from the ground up. Keen to apply predictive modeling and analytical skills to solve complex business challenges within a dynamic, structured environment. Sees the First Capital Bank Graduate Development Programme as an exceptional opportunity to contribute a fresh, tech-driven perspective while gaining valuable industry experience.

## Education

**Bachelor of Education in Computer Science** | University of Malawi

- *Coursework completed May 2025. Awaiting final teaching practice in September 2025.*

**Malawi School Certificate of Education (MSCE)** | 2018

## Key Competencies

- **Machine Learning & Data Analysis:** Experience in developing, training, and deploying predictive models to interpret complex datasets.
- **Full-Stack Development:** Proficient in architecting and building complete web applications from backend logic to user interface.
- **Communication & Interpersonal Skills:** Developed strong presentation and communication abilities through teaching experience and public-facing roles.
- **Integrity & Responsibility:** Entrusted with financial duties as a school bursar, demonstrating high standards of integrity and trustworthiness.
- **Team Player:** Works effectively in team settings, able to collaborate and contribute to achieving common goals.
- **Self-Motivated & Ambitious:** A proactive self-starter with a proven ability to manage projects and responsibilities independently, driven by a desire to learn and grow professionally.

## **Relevant Experience**

### **UBR Temporary Enumerator** | Nkhatabay District Council | 2021

- Demonstrated exceptional attention to detail and integrity while collecting and managing sensitive household data using digital tablets.
- Worked efficiently within a structured, project-based environment, adhering to strict protocols and deadlines for data synchronization.

### **Teacher & School Bursar** | Progress Primary School | 2020

- Managed school financial records, including the collection and bookkeeping of school fees, showcasing strong numerical skills and a high degree of responsibility.
- Planned and delivered lessons, honing communication skills and the ability to explain complex topics clearly.

## **Projects**

### **AI-Powered Maternal Health Risk Prediction System** | [Project Link](#)

- Developed and trained a custom machine learning model to predict maternal health risks during pregnancy, achieving a 94% prediction accuracy.
- Engineered the system to provide early warnings and personalized care recommendations, demonstrating the ability to create impactful, data-driven solutions.
- **Technologies:** Python, Scikit-learn, TensorFlow, Flask, next.js, firebase

### **UmoyoCard** | **AI Digital Health Passport Scanner** | [Project Link](#)

- Developed a mobile application in Flutter that digitizes paper health passports, leveraging the Gemini AI model for advanced OCR to accurately extract handwritten medical text.
- Securely stored records in a Firebase database and incorporated predictive analytics and data sharing capabilities for hospital systems.
- **Technologies:** Flutter, Firebase, Gemini API, FHIR

## **Annex | Web Application - In Development | Project Link**

- Designing and developing a web-based e-learning marketplace where teachers can create and sell lessons, and students can purchase materials or find online tutors.
- This project demonstrates entrepreneurial initiative and the ability to develop a full-stack solution to a real-world market need.
- **Technologies:** Next.js, NestJS, PostgreSQL

## **REFEREES**

Available upon request.