EMMANUEL OBOLO
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PROFESSIONAL SUMMARY

Emmanuel Obolo is a Software Engineering student at the African Leadership University with expertise in full-stack development and machine learning. He has developed impactful projects like Life Prescriber, CollabU, and CampusCart, showcasing his ability to create user-centric applications. As a Full-Stack Engineer Intern at Africa Quantitative Sciences, he improved data processing efficiency by 30% and built data-driven platforms for government agencies. Skilled in Django, React, Flutter, TensorFlow, and Python, Emmanuel is passionate about developing scalable, innovative solutions and continues to grow through continuous learning.

SKILLS

Technical Skills

- Django, FastAPI, React, Flutter, SQLite, PostgreSQL, Pytorch, Keras, Firebase, TensorFlow, Scikit-Learn, Pandas, Git, C, JavaScript, Python, Dart, TypeScript, Flask, AWS Sagemaker, S3, Lambda, Autogluon, Linux.

Soft skills

- Collaboration & Teamwork: Collaborated on cross-functional projects, building scalable solutions for real-time apps and interactive event managers.
- Growth Mindset & Continuous Learning: Advanced skills in TensorFlow and V1 MVC Framework, staying updated with industry trends.
- Problem Solving & Innovation: Developed innovative solutions through Django and React projects, addressing complex user needs.

EDUCATION

- **African Leadership University**   **January 2023 – Present**
  Bachelor of Science, Software Engineering

SELECTED PROJECTS

- **V1 MVC Framework - 2025** - A personal project built to explore and understand the Model-View-Controller architecture by creating a lightweight, modular framework for small-scale web applications.
- **Life Prescriber - 2024** - A web application designed to help medical patients adhere to their medication schedules through timely email reminders, with features for clinicians to manage patient onboarding and medication adherence.
- **CollabU - 2024 -** A platform that enhances collaboration among higher education students by providing tools for project management, document sharing, and communication to improve academic success.
- **CampusCart - 2024 -** A mobile app that simplifies food and product ordering on campus by providing a structured platform for vendors to list their offerings, reducing reliance on traditional WhatsApp group promotions.
- **Landmark Classifier - 2023** - A machine learning project using Convolutional Neural Networks (CNNs) to classify landmarks in images and predict their locations based on discernible features.
- **Flower Species Classifier - 2022** - A machine learning project that trains an image classifier to recognize different species of flowers, which can be integrated into mobile apps for real-time.
- **Academic Feedback System - 2024** - A web application designed to improve communication between teachers and parents, providing detailed analytics to enhance academic performance monitoring.

SELECTED INTERNSHIP & VOLUNTEERING OPPORTUNITIES

Africa Quantitative Sciences (AQS), Rwanda   **May 2024 – August 2024**
Full-Stack Engineer Intern

- Developed innovative platforms for 3 Rwandan government agencies, improving their data management and decision-making processes.
- Leveraged front-end and back-end technologies to create 2 data-driven solutions that transform unstructured data into actionable insights.
- Designed intuitive user interfaces, improving data visualization for over 500 users across departments.
- Engineered server-side systems that processed and analyzed 10,000+ data entries, enhancing data processing efficiency by 30%.

African Leadership University, Rwanda   **September 2023 – Present**
Teaching Assistant, Mathematical Foundations of Machine Learning

- Guided students in applying linear algebra, calculus, and probability to optimize algorithms and train models while providing academic support through tutoring and problem-solving sessions to improve comprehension.

Kadar Initiative for Community Empowerment, Kenya   **September 2023 – December 2023**
IT Assistant

- Maintained and updated the organization's blog daily for three months, enhancing online engagement while collaborating with a colleague to ensure accurate and timely content publication.

Raise Her Voice Conference, Rwanda   **January 2025**
Event Volunteer

- Managed registration and protocol logistics, ensuring a seamless check-in process while supporting event operations with strong organizational and communication skills.

SELECTED CERTIFICATIONS

- AWS Machine Learning Fundamentals
- AWS AI Programming with Python
- Data Analysis Using Python
- Linear Algebra for Machine Learning
- Calculus for Machine Learning
- Supervised Machine Learning: Regression and Classification
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Neural Networks and Deep Learning