

Elizabeth Mwanja

Data Scientist | Software Developer

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Professional Summary

Results-driven professional with a solid foundation in Data Science and Machine Learning, currently pursuing a Master's in Mathematical Sciences at AIMS Cameroon. My background in Software Development (BSc in Mathematics and Computer Science) and Cybersecurity (Cybersafe Foundation) equips me with a diverse and unique blend of technical expertise and innovative problem-solving to every task. My passion for innovation fuels my commitment to continuous learning and skill enhancement. Additionally, I excel in communication, presentation, and collaboration, ensuring seamless teamwork and impactful results.

Areas of Expertise

Technical Skills

- Data analysis & management: Ms Excel, SQL, Python, R.
- Credit scoring and scorecard development.
- Risk and credit analytics.
- Machine learning & modelling
- Software development.
- Cybersecurity & secure coding.
- Database management.

Soft Skills

- Strong communication & negotiation skills.
- Documentation and reporting skills.
- Excellent problem-solving skills.
- Time management.
- Collaboration and teamwork.
- Flexibility and adaptability.
- Critical thinking and analytical skills.
- Great prioritization skills.

Experience

Software Developer

November 2021-August 2024

Kenya Revenue Authority

- Collaborated with a team of customs developers and analysts to centralize customs processes and improve system efficiency.
- Integrated a Gen AI-powered Tax Calculator, optimized APIs for the Customs Auction platform, and managed ICT systems with a team of data scientist.
- Improved tax calculations efficiency and increased management of the customs systems by 20% .

System Analyst

June 2021 – October 2021

Jirani Smart Microfinance Ltd., Kenya

- Led a team of 5 analysts to monitor financial systems and processes, improving efficiency and enabling informed decision-making.
- Identified financial system issues, recommended solutions, and integrated the ICT network to align with company standards. Monitored database performance to prevent downtime.
- Improved system efficiency, resolved financial issues, and ensured 100% database uptime.

Projects

Data Analyst in Limbe Regional Hospital

- Collaborated with fellow colleagues at AIMS Cameroon to uncover trends to the progression of diabetes from under various factors.
- Technologies: Python, Pandas, numpy, Scikit-learn, plt

Predicting student's performance

- Developed a predictive model to identify factors that affect students performance
- Technologies: R

Implementation of secure API using token-based authentication and Keycloak

- Led a team of 6 Cybergirls to build a secure RESTful API to achieve authentication, authorization, and data protection.
- Technologies: Keycloak, Flask, Kubernetes, Docker, CI/CD with GitHub Actions

Development of Universal Health Coverage (UHC) System

- Led the development of a Universal Health Coverage (UHC) system for Kisumu County Government, Kenya, to improve healthcare delivery and system performance.
- Technologies: Frontend/Backend Development, DHIS Integration.

Forex Trading on Malagasy and Sudanese Market Analysis

- Conducted market analysis to understand exchange rate to predict trading trends in the Malagasy and Sudanese markets, supporting strategic decision-making for stakeholders at Ubuntu Stock Exchange, Sakode, Togo.
- Technologies: NumPy, Scikit-learn/TensorFlow, PowerPoint

Education

- **Master of Science in Mathematical Sciences (Ongoing)**
Africa Institute of Mathematical Sciences (AIMS) Cameroon | September 2024 - Present
- **Cybersecurity at CyberSafe Foundation**
Cybersafe Foundation | Lagos, Nigeria | March 2024 – December 2024
- **Bachelor of Science in Mathematics and Computer Science**
Maseno University, Kenya | August 2016 – April 2021

Certifications

- Credit Risk Modelling and Management (Ongoing)
- AWS AI & Machine Learning (Ongoing)
- OCI 2024 GenAI certified
- IBM Machine Learning
- Oracle Java Developer
- Oracle Data Management
- Project Management: PRINCE 2
- CompTIA Linux+