Marion Vutagwa

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PROFILE

Innovative and driven developer passionate about creating impactful digital solutions. Experienced in solving complex technical challenges using emerging technologies. Adept at full-stack development, blockchain systems, and sustainable technology solutions, with a collaborative approach to delivering high-quality projects.

EDUCATION

Kiriri Women University of Science and Technology, Nairobi, Kenya
Bachelor of Science in Computer Science

Kiriri Women University of Science and Technology, Nairobi, Kenya
Diploma in Information Technology

Moringa School, Nairobi, Kenya
Web Development Bootcamp

EXPERIENCE

Kenya Institute for Public Policy Research and Analysis (KIPPRA) – ICT Attachee
May 2024 – August 2024

- Diagnosed program malfunctions, identified root causes, and implemented corrective measures to improve system functionality.
- Optimized IT infrastructure and recommended strategies to enhance organizational efficiency.
- Provided technical support for network troubleshooting, device configuration, and software installations.

Ministry of Water, Irrigation, and Sanitation – ICT Attachee
January 2022 – April 2022

- Resolved technical issues by troubleshooting hardware, software, and network problems.
- Recommended IT solutions to improve system performance, especially with limited infrastructure.
- Managed system configurations and provided technical support for the team.

SKILLS

Programming Languages: Java, JavaScript, Python, Visual Basic.NET, HTML, MySQL, Flutter
Frameworks & Technologies: jQuery, Flask, TensorFlow, Pandas, Motoko, React, Web3, Blockchain
Version Control: Git, GitHub, GitLab
Soft Skills: Collaboration, Problem-solving, Communication, Adaptability

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PROJECTS

Paradise (Inter-University Hackathon, November 2024)
AI-powered e-waste management system aimed at addressing the growing e-waste problem in Nairobi's informal sectors. Using computer vision, the system classifies and tracks electronic waste

while providing real-time insights to promote responsible disposal. The project was developed as both a web and mobile platform to enhance accessibility. Our innovative solution earned us 3rd place in the Sustainable Environment category.

MHORE Hack (ICP Interuniversity Hackathon, January 2024)
A content monetization platform using Motoko and React. The platform provided creators with secure payment options, such as bank cards and checks, and allowed seamless content uploading and management. Through decentralized user authentication and innovative blockchain integration.

WiSh Hackathon (Women in Blockchain Hackathon, March 2024)
A decentralized application (DApp) designed to improve case reporting and enhance community engagement. By utilizing blockchain for transparency and security, the platform incentivized verified contributions through a token-based reward system.

Own Key ID (Web3/Blockchain Memoi Hackathon, May 2024)
I collaborated with a team to create *Own Key ID*, a cross-platform authentication system that incorporates biometric data recognition. This project leverages blockchain and Web3 technologies to provide secure and seamless user authentication while prioritizing privacy.

AI-Powered Indemnity Quotation System (KenyaRe Hackathon, October 2024)
In this independent project, I developed a web application to simplify insurance premium calculations using AI-powered financial data analysis. Users could upload documents or input data manually to receive accurate premium quotations. The system also provided downloadable PDF quotes, streamlining the insurance process and enhancing accessibility.