

REHEMA MANUELLA WANJIRU KURIA

Software Developer | AI Researcher

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PROFESSIONAL SUMMARY

Software Developer and researcher with a Second Class Honors (Upper Division) in Computer Science. Specializing in Artificial Intelligence, Machine Learning and cybersecurity, with hands-on experience in computer vision, and IoT systems. Dedicated to bridging the gap between advanced technology and impactful community engagement.

WORK / PROFESSIONAL EXPERIENCE

Royal Media Services Limited | Information Technology Intern | Jan 2025 – Mar 2025

- Managed system administration and optimized software reliability in a media environment, troubleshooting networks to minimize downtime.

Embassy of Japan in Kenya | Cultural Volunteer & Liaison | 2024 – Present

- Acted as a volunteer for events such as the Ambassador's Judo Cup, interacting and educating with interested individuals about several aspects of Japanese Culture
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LEADERSHIP EXPERIENCES

President, Japanese Club | Strathmore University | 2024 – 2025

- Spearheaded a strategic partnership with the Japan Embassy, driving a 40% increase in club membership and facilitating scholarship workshops.

TECHNICAL PROJECTS

- **StegaShield (Digital Security):** Built a dual-layer security system that hides digital "watermarks" in images to detect tampering. *Tool used: Python, LSB steganography.*
 - **News Bias Detector (AI):** Fine-tuned an AI model to identify biased language in news with 82% accuracy. *Tools used: Python, HuggingFace Transformers, fine-tuned BERT.*
 - **Dream-Queue Hybrid (Smart Scheduling):** Developed an "intelligent" computer scheduler that uses spare processing power to run background tests without slowing down the primary tasks a user is working on. *Tools used: Python, OS scheduling algorithms.*
 - **Savanna Trace (IoT/Tracking):** Built a tracking tool that automatically finds and updates the location (IP address) of remote campus equipment, ensuring it remains accessible even when network settings change. *Tools used: MQTT, Python, dynamic DNS.*
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EDUCATION

Bachelor of Science in Computer Science & Informatics | Strathmore University | Expected August 2026

- Classification: Second Class Honors (Upper Division).
- Relevant Coursework: AI, Machine Learning, Data Structures, Algorithms, Software Development.

Pioneer Girls' High School

- Completed KCSE Exams with a mean grade of A-.
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CERTIFICATIONS

Data Science and Machine Learning Specialist | Sankhyana | Jan 2025 – July 2025

- Focus: Data preprocessing, Machine Learning, Developing deep learning models

AICE AI Career Essentials | ALX Africa | Jan 2024 – May 2024

- Focus: Prompt engineering, ML fundamentals, and practical AI applications.

Cisco Certified: Computer Networks and Cybersecurity (3 Certifications).

Deploying Django Apps: Make Your Site Go Live.

Ethical Hacking: Introduction to Ethical Hacking.

CORE COMPETENCIES

- **AI & Machine Learning:** NLP, Computer Vision, Reinforcement Learning, Prompt Engineering, TensorFlow, Scikit-Learn.
- **Software Engineering:** Java, Python, Kotlin, C++, PHP, SQL, React, Android Development.
- **Systems & Security:** System Admin, Ethical Hacking, Docker, MQTT, Digital Forensics.
- **Languages:** English (Native), Japanese (Beginner).

REFEREES

Kandagor Caleb

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