JULIAN TANUI

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[Portfolio](#)

PROFESSIONAL SUMMARY

Innovative Software Engineer and Hackathon Enthusiast with a strong foundation in Computer Science, specializing in AI, Machine Learning, and IoT solutions. Proven track record of developing impact-driven projects, from climate-fintech platforms (EcoCoin) to Deepfake detection models. Recognized for academic excellence (Dean's List) and active participation in international innovation challenges. Fluent in Python and Mobile Development, with a passion for solving real-world problems through technology.

TECHNICAL SKILLS

- **Languages**: Python, Kotlin, JavaScript, Dart, SQL.
- **Frameworks**: Flutter, React, PyTorch, TensorFlow, CSS3.
- **AI & ML**: Computer Vision (CNNs), RAG (Retrieval-Augmented Generation), NLP.
- **Tools**: Git/GitHub, Linux Systems, Cisco Networking, IoT Sensors.

EDUCATION

Strathmore University, Nairobi | Bachelor of Informatics and Computer Science

Expected Graduation June 2026, coursework completed

- **Honors:** Dean's List Award (2024-2025) – Recognized for outstanding academic performance.
- **Relevant Coursework:** Data Structures and Algorithms, Software Engineering, Machine Learning, Advanced Database Systems, Advanced Networking, Project Management.

HACKATHONS & INNOVATION CHALLENGES

- **International Energy & Sustainability Hackathon (2026)**: Currently participating in the 2026 cohort, developing sustainable energy solutions.
- **Inflection AI Hackathon (Climate Change)**: Developed 'EcoCoin,' a fintech solution for trading carbon credits for real currency to incentivize climate action.
- **Oracle Hackathon (Climate Change)**: Built 'Smart IoT Farm,' an integrated system using sensors and AI to monitor soil health and automate irrigation.

SELECTED ENGINEERING PROJECTS

- **DeepDetect (AI/ML)**: Engineered a Convolutional Neural Network (CNN) model to detect deepfake imagery/video with high accuracy, addressing digital media security.
- **Gaming RAG Assistant (AI)**: Developed an intelligent Q&A system using Retrieval-Augmented Generation (RAG) to dynamically parse game documentation and lore.

- **CasaControl (Mobile)**: Created a mobile app for smart home management using Kotlin/Flutter, enabling remote appliance control.
- **CommunityPlus (Web)**: Designed a web-based donation platform bridging donors and receivers to facilitate community support.

PROFESSIONAL EXPERIENCE

CIC Insurance Group | ICT Intern | **Jan 2025 – April 2025**

- Provided enterprise-level technical support, resolving complex ticket escalations and ensuring operational continuity.
- Managed network infrastructure, troubleshooting outages and optimizing performance for domain connectivity.
- Configured hardware assets (laptops, mobile devices), ensuring strict adherence to security protocols.

Kenya National Library Service (KNLS) | Volunteer & Trainer | **Jan 2024 – Mar 2024**

- Led digital literacy workshops, teaching computer proficiency to students and community members.
- Assisted in organizing educational workshops and fostering a collaborative learning environment.
- Assisted in front desk services and library resource organization.

ACHIEVEMENTS & CERTIFICATIONS

- **Dean's List Award (2024-2025)**: Awarded for maintaining a high GPA and demonstrating academic leadership.
- **NSK AI RAG Bootcamp**: Successfully completed intensive training on building Retrieval-Augmented Generation systems.
- **Cisco Certified**: Certified in IT Essentials (Cisco Networking Academy) – Proficient in hardware assembly, maintenance, and security.
- **Cisco Certified**: Certified in Computer Networks (Cisco Networking Academy).

LEADERSHIP & ACTIVITIES

- **Member:** Google Student Developer Club (GDSC), Strathmore University.
- **Member:** Strathmore Computing and Engineering Sciences Association.
- **Registered Member:** The Kenya Red Cross Society.
- **Member:** SDG Hub Strathmore University