

KALEMA ROGER

Information Systems and Technology

Kampala, Uganda

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SUMMARY

Aspiring and highly-driven **Information Systems and Technology Professional** with a strong foundation in **full-stack development**, **systems design**, and **networking**. Proven ability to provide practical solutions through academic projects, internships, and international hackathons. I'm passionate about applying technology to meaningful problems and thrive in fast-paced, innovative team environments.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript
 - **Frontend:** JavaScript, HTML, CSS, Streamlit
 - **Backend:** Node.js, Django, Express, Flask
 - **Databases:** MongoDB, MySQL, VectorDB
 - **Tools & Platforms:** Git, GitHub, Vite, Vercel, Docker
 - **Networking:** Local Networking Hardware, IT Support
 - **Methodologies:** Agile, Scrum
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PROFESSIONAL EXPERIENCE

IT Intern - Networking and Web Development | Stratcom Communications and IT Solutions Ltd | May 2024 – July 2024

- Assisted in the implementation and maintenance of local networking hardware, ensuring stable and reliable connectivity.
 - Contributed to the development of a web application for a microfinance system.
 - Gained practical experience in IT support and systems integration.
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PROJECTS

E-Blood Donation and Management Information System | August 2024 – May 2025

- Developed a web-based platform using **Django** and **Bootstrap** to manage blood donation processes.
- Implemented comprehensive modules for donor tracking, appointment scheduling, and real-time inventory management, significantly improving efficiency.

PrimeCare General Hospital Booking App | September 2024 – December 2025

- Constructed a full-stack hospital appointment system using **React**, **TypeScript**, **Node.js**, and **MongoDB**.
- Enabled patients to easily book and manage appointments and allowed doctors to view and modify their schedules, streamlining hospital operations.

Student Feedback Tracking Information System | October 2024 – May 2025

- Created a real-time feedback platform for students at Makerere University to voice concerns, fostering transparency and student engagement.
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HACKATHON PARTICIPATION

Raise Your Hack – Metro Store AI Assistant | lablab.ai | May 2025

- Collaborated in a team of five to quickly develop a full e-commerce experience.
- Integrated a Groq API-powered AI shopping assistant, email alerts, and real-time analytics using **Flask**, **HTML**, **CSS**, **JavaScript**, and **Python**.

AI Genesis – InboxIQ (AI Email Triage Assistant) | lablab.ai | May 2025

- Served as the **Machine Learning Lead** in an international team to develop an AI email organizer, prioritizer, and replier.
 - Handled backend development and AI implementation, working effectively across multiple time zones.
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EDUCATION

Bachelor of Information Systems and Technology | Makerere University, Kampala

ADDITIONAL INFORMATION

- **Leadership:** Served as a class representative and as a scrum leader on academic and extracurricular projects.
- **Interests:** Technology innovation, AI driven solutions, and community engagement.