

# Allan Vikiru

Nairobi, Kenya

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## Experience

### Strathmore University, School of Computing & Engineering Sciences

Nairobi, KE

*Tutorial Fellow*

*July 2024 – Present*

- Instructing at most 250 students on Artificial Intelligence, Information Security, Data Governance and Cloud Computing.
- Coordinating research activities at the School's Makerspace Lab including engaging at least 10 industry players and research institutions, 30 students and 5 research dissemination seminars.
- Supervised at least 20 student projects on systems development machine learning, hardware engineering, and Internet of Things.

*Graduate Assistant*

*March 2022 – June 2024*

- Developed a research proposal on using machine learning and IoT to detect logging activities that received an award of USD 139500.
- Contributed to 3 research papers on deep learning and cloud computing.
- Conducted stakeholder engagement, data collection and analysis and device prototyping for a research project on detecting illegal logging activities.
- Created a health informatics project involving an algorithm that uses spatial soil data to recommend foods for diabetic patients, which registered 80% accuracy.

### @iLabAfrica, IoT & Wireless Networks Lab

Nairobi, KE

*Software Developer Intern*

*January 2022 – March 2022*

- Designed and implemented a monitoring dashboard in Vue.js and Node.js and authentication system in Keycloak for a LoRaWAN based research project.
- Designed and developed breadboard model devices to model LoRaWAN connectivity.
- Engaged at least 50 stakeholders in planning and disseminations in workshops on Internet of Things and spectrum management.

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## Skills

**Languages:** C++, HTML/CSS, JavaScript,  $\text{\LaTeX}$ , MATLAB, Python, R, SQL

**Software:** Arduino, Docker, Git, Microsoft (Azure IoT, Power BI), Django, Heroku, IntelliJ IDEA, QGIS, Streamlit, ThingSpeak

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## Education

### Strathmore University

Nairobi, KE

*MSc. Information Technology (Business Intelligence & Data Analytics Option) [Grade: Pass] June 2022 – June 2024*

*BSc. Informatics & Computer Science (Grade: First Class Honours)*

*March 2017 – September 2021*