

Sammy Kiptoo

Computer Networks | Distributed Systems

Phone: +254 743 295 288 | Email: sam.k.kiptoo@gmail.com

LinkedIn: www.linkedin.com/in/sammy-kiptoo

Summary

Computer Science undergraduate with a strong foundation in computer networks, distributed systems, and artificial intelligence. Gained practical experience through an industrial attachment in a large-scale telecommunications managed services environment, supporting network operations, monitoring, troubleshooting, and field activities across enterprise-scale infrastructure. Analytical, adaptable, and eager to learn new technologies, with the ability to collaborate effectively in multidisciplinary teams. Seeking an internship/job where I can apply my technical skills while contributing to reliable, innovative technology solutions.

Work Experience

Nokia Managed Services — Industrial Attachment / Intern, Nairobi, Kenya September 2025 – December 2025

Network Operations Center (NOC):

- Monitored network KPIs and SLAs and supported response to critical alarms across 2G, 3G, 4G, and 5G networks.
- Liaised with Field Operations Engineers (FOEs) during fault resolution and performed Level 1 troubleshooting across BSS, transmission, and core network domains.

Systems & Network Management Tools:

- Gained hands-on exposure to Nokia NetAct, Ericsson Network Manager, Nokia NFMP, Huawei iMaster NCE, ZTE NetNumen, Elastic Net, and ITSM platforms.

Field Operations:

- Participated in preventive maintenance, site upgrades, replacement of faulty SFP modules, and support of Network Planning and Optimization (NPO) activities.
- Visited twelve operational sites, including a data center, hub site, and Indoor Building Solutions (IBS) site.

Base Station Subsystem (BSS):

- Used Ericsson network management CLIs and completed simulation tasks such as configuring X2 interfaces in 4G using Ericsson Moshell.

Network Planning & Optimization (NPO):

- Assisted in resolving customer complaints and KPI degradation through re-azimuth planning, electrical and mechanical tilt adjustments, power boosting, and drive test activities.
- Utilized tools including Google Earth, Microsoft Excel, G-Net Tracker, and QualiPoc.

Core Network:

- Gained exposure to circuit-switched core, packet core, IMS core, and the Mobile Packet Backbone Network (MPBN) interconnecting the core network.

Education

Bachelor of Science in Computer Science

Kabarak University, Nakuru

Expected Completion: August, 2026

Expected Graduation: December, 2026

Relevant Coursework:

Computer Networks, Internetworking with TCP/IP, Distributed Systems, Artificial Intelligence, Database Management Systems, Operating Systems, Network Security and Cryptography

Skills

Python, Microsoft Excel, Web Development, Network Troubleshooting, Network Configuration, TCP/IP

Certifications

Open Source and the 5G Transition — The Linux Foundation [[View](#)]

ESG and Climate Change — Coursera [[View](#)]

Professional Writing — Saylor Academy [[Verify certificates | Saylor University](#)]

Defensive Driving — Life Safety Training Center [[View](#)]

Referees

Available upon request