Knoph Oluoch Ayieko

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PROFESSIONAL SUMMARY

Results-driven **Full-Stack Developer & IT Specialist** with 3+ years of experience spanning **software engineering, systems administration, ICT infrastructure and technical support** across health, education and enterprise environments.

Skilled in **Python, JavaScript, SQL, REST APIs and cloud/web platforms**, with proven expertise deploying **KenyaEMR, NASCOP and KMHFR** health systems. Strong record of **network administration, ERP/LMS support, user training and cybersecurity compliance**.

Recognized for **integrity, resilience and servant-leadership**—aligning technology solutions with organizational missions in healthcare, academia and research.

CORE SKILLS

- **Programming & Web Dev:** Python, JavaScript (ES6+), React, Django, Flask, Laravel, Next.js, WordPress
- **Systems & Databases:** MySQL, PostgreSQL, SQL, Windows/Linux admin, ERP, Moodle, Google Classroom
- **Networking & Security:** LAN/WAN, Cisco Routing & Switching, VPN, CCNA-level, CompTIA A+, Cybersecurity Fundamentals
- **ICT Operations:** ICT helpdesk, hardware/software troubleshooting, server setup, asset management, procurement
- **Other Tools:** Git/GitHub, Docker, Figma, Postman, VS Code, Agile, Documentation & SOPs
- **Professional Values:** Integrity, confidentiality, collaboration and mission-driven service

PROFESSIONAL EXPERIENCE

ICT Support Officer
University of Kabianga (UoK) | Kericho, Kenya
Feb 2025 – Present
- Delivered ICT support to **300+ staff and students** with a **95% issue resolution rate**.
- Installed, configured and maintained **Windows/Linux PCs, printers, projectors and ICT labs**.
- Supported ERP and student database systems for Registrar & Finance offices.
- Implemented **antivirus and data backup solutions**, reducing downtime by **40%**.
- Oversaw **staff/student ID issuance** and ICT consumables management.

Webmaster (Volunteer)
Christian Life Community, Nairobi (Remote)
May 2025 – Present
- Managed website updates, digital content deployment and SEO optimization.
- Coordinated **online campaigns**, enhancing community outreach and engagement.
- Maintained website security and accessibility for stakeholders.

Web Developer & ML Engineer
Omni-Legacy Co. Ltd. | Nairobi, Kenya
Mar 2025 – May 2025
- Designed **predictive ML models and interactive dashboards** to support business decisions.
- Built secure **full-stack applications (Next.js, Node.js, MongoDB)** with CI/CD pipelines.
- Integrated **M-Pesa Daraja & PayPal gateways**, ensuring PCI-compliant transactions.

Back-End Developer (Remote)
ALX Ventures | Addis Ababa, Ethiopia
Nov 2024 – Jan 2025
- Built and maintained **Flask-based backend systems** with SQL databases.
- Designed RESTful APIs for loan and user workflows, with authentication & error handling.
- Deployed applications on cloud infrastructure with automated testing pipelines.

Full-Stack Web Developer (Contract)

NASCOP – Ministry of Health (GoK) | Nairobi, Kenya

Apr 2024 – Sep 2024

- **Revamped nascop.or.ke** using PHP/WordPress, boosting speed, SEO and accessibility.
- Migrated servers and improved infrastructure security in line with **GoK ICT standards**.
- Collaborated with MoH ICT team to ensure compliance and performance monitoring.

Research Assistant & IT Specialist

Open University of Kenya, Konza Technopolis

Apr 2024 – Jan 2025

- Analyzed **digital learning datasets** to generate insights for academic programs.
- Built **AI-driven dashboards and statistical models** for education research.
- Supported LMS platforms (Moodle, Google Classroom) for staff & students.

HealthIT Intern – IT Support Technician

University of Nairobi Enterprises & Services Ltd. (UNES) | Nairobi, Kenya

Feb 2024 – Jan 2025

- Deployed and supported **KenyaEMR, CPIMS and KMHFR** digital health systems.
- Trained **30+ clinical and administrative staff**, improving adoption & usage (~82% utilization).
- Managed preventive maintenance, antivirus protection and ICT asset inventory.

Apprentice IT Technician & Tutor

University of Kabianga | Kericho, Kenya

Sep 2023 – Jan 2024

- Supported ICT infrastructure and user operations across academic units.
- Conducted preventive maintenance, cutting ICT-related downtime by **30%**.
- Delivered digital literacy training in **Moodle and Google Classroom**.

ICT Officer (Digital Services)

County Government of Kericho | Kericho, Kenya

Jun 2023 – Sep 2024

- Implemented **digital records management** aligned with county ICT strategy.
- Oversaw **ICT procurement, asset tracking and compliance audits**.
- Managed **LAN/WAN networks and cloud-based services** across county offices.

ICT Attaché

Kenya Power & Lighting Co. Ltd. (KPLC) – North Rift HQ | Eldoret, Kenya

May 2022 – Jul 2022

- Supported **SCADA systems, enterprise fiber networks and Cisco routing**.
- Assisted ICT helpdesk, ID card issuance and asset management.

Freelance Web Developer & IT Consultant

Various Clients (Remote & On-Site)

Jun 2022 – Present

- Delivered secure **web solutions, LMS platforms and database systems** for NGOs, healthcare and educational institutions.
- Provided **technical support, cloud hosting and system integrations** for SMEs.
- Built and maintained personal portfolio projects including knoph.dev.

Self-Employed IT Services Provider

University of Kabianga Campus | Kericho, Kenya

Dec 2022 – Jan 2024

- Operated an IT hub offering **computer maintenance, local networking and troubleshooting** for students and the local community.

KEY PROJECTS

University of Kabianga Annual Research Grants Portal

Designed a secure system for tracking grant applications, project submissions and funding records.

- Technology Stack: PHP, Laravel, MySQL | Live Site: arg.kabianga.ac.ke

Omni-Legacy Co. Ltd. (2025) omni-legacy.tech

- Built full-stack applications, predictive ML models and dashboards to support organizational decision-making.

USAID HealthIT Projects
Contributed to **KenyaEMR**: Developed frontend and backend modules; deployed, trained and supported health staff across multiple counties.
    Tools: OpenMRS, Java, Angular, GitHub | Documentation & Live System: kenyahmis.org

- Worked on **KMHFR**: Extended reporting modules, integrated GIS and Community Units using Django. | Live Portal: kmhfr.health.go.ke/

NASCOP Website Revamp – Ministry of Health (Apr – Sep 2024) nascop.or.ke

- Re-architected the national health communication website using PHP/WordPress, enhancing accessibility, responsiveness, multilingual support and SEO.

AcePapers Writers Platform (May 2025) acepaper-writers.com

- Built a full-stack academic writing marketplace with secure dashboards, real-time messaging and payment integration.

Laxco Inc. Internal Systems (2020–2021)
https://demo.laxco.co.ke/ | https://aura.laxco.co.ke | https://laxco.co.ke

- Created HR and inventory management tools, dynamic reporting and company website using Laravel/MySQL and WordPress.

Personal Portfolio knoph.dev

- Showcases full-stack projects, Next.js/TailwindCSS development and CI/CD workflows via GitHub Actions.

EDUCATION

Bachelor of Science (Information Technology)
University of Kabianga | Kabianga, Kericho, Kenya
2nd September 2019 – 19th May 2023

- Second Class Honours (Upper Division) | Graduated 27th October 2023

CERTIFICATIONS

- AI Training, Cyber security Training: ICT Authority (2025)
- CompTIA Data+, CompTIA A+ (Core 1 & Core 2): CompTIA (2025)
- Front-End Development, AI Smarter Kit: ALX Africa (2025)
- Back-End Development, Virtual Assistant, AI Career Essentials: ALX Africa (2024)
- Cisco Certified Network Associate (CCNA), Routing and Switching: Cisco (2024)
- Cybersecurity Fundamentals (ISC2): Cisco, Kenyatta University (2022)

PROFESSIONAL MEMBERSHIP

Association of Computing Practitioners – Kenya (**ACPK**), since **4th December 2024**

- Membership Number: **PM000694**
- Designation: **Member in Good Standing**

ACHIEVEMENTS

- Instrumental in achieving ~82% utilization of KenyaEMR 3.x in clinical departments at Bomet Health Centre and Kabianga Health Centre plus tiBERbu EHR at Kapkatet Sub-County Hospital after training and stabilization efforts.
- Multiple backend-focused project completions with ALX, showing competence in API design, database work, reliability.

ADDITIONAL INFORMATION

Languages: English (professional), Swahili (fluent), Luhya (native), KSL (basic)
Availability: Immediate
References: Available upon request