

CHARLES MWANGI MUCHAI

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Summary

I am a motivated and detail-oriented Information Science (Informatics) graduate with strong academic training and practical experience in software development, data analysis, networking, and IT support. I possess the ability to design, develop, and support information systems that are functional, secure, and aligned with organizational needs. I am a team player with excellent communication, problem-solving, and analytical skills, capable of working under pressure and meeting strict deadlines. I am passionate about digital transformation, emerging technologies, and leveraging IT solutions to support business and public sector operations.

Personal details

Year of birth: 2003 **Nationality:** Kenyan **Marital Status:** Single **Languages:** English, Kiswahili and French

Education

Bachelor of Science Information Science (Informatics) - Second Class Honours (Upper Division), Technical University of Kenya, 2021 – 2025

Kenya Certificate of Secondary Education (KCSE) – scored a mean grade of B (plain), Bavuni Secondary School, 2021

Kenya Certificate of Primary Education (KCPE) – scored a mean grade of B (341 marks), Harambee Khalsa Primary School, 2016

Key skills and competencies acquired

- Strong analytical, problem-solving, and critical-thinking skills
- Ability to design, develop, and maintain information systems
- Programming and scripting for automation and system optimization
- Database design, data processing, and reporting
- Network configuration, troubleshooting, and basic security setup
- System installation, maintenance, and user technical support

- Research, data analysis, documentation, and report writing
- Ability to work independently and collaboratively in team environments
- Excellent written and verbal communication skills
- Time management, adaptability, and ability to meet deadlines

Technical skills

- Programming Languages: Python, C++, C, HTML/CSS
- Databases: MySQL, PostgreSQL, SQL
- Tools & Platforms: Git/GitHub, Jupyter Notebook, VS Code, Cisco Packet Tracer
- Operating Systems: Linux, Windows
- Networking: Network configuration, troubleshooting, and security basics
- Other Skills: System digitization, hardware support, IT troubleshooting

Work History & Professional Experience

ICT Attaché

Ministry of Lands and Physical Planning

August 2025 – November 2025.

Roles and Responsibilities:

- Configured, monitored, and maintained local area networks using MikroTik and Cisco devices
- Performed hardware and software installation, maintenance, and troubleshooting
- Digitized land records and conducted accurate data entry into government systems
- Provided day-to-day technical support to staff and resolved system-related issues
- Assisted in network security setup and basic system administration

Professional Achievements and projects

Web and System Development Projects

- Designed and developed responsive web-based applications using Python and Node.js
- Integrated backend databases to support data storage and retrieval
- Developed a Civic Engagement System for TUK Students Association part of my final year academic project.
- Improved system performance and usability through testing and optimization

Portfolio: github.com/chalo990j

Data Analysis and Automation

- Processed, analyzed, and visualized datasets using Jupyter Notebook
- Developed Python scripts to automate data extraction, cleaning, and reporting
- Generated analytical insights to support decision-making

Computer Networking

- Undertook installation, configuration and preventive maintenance of Local Area Networks.
- Used MikroTik routers and billing systems to provide internet services for different communities.
- Understood the Cisco Packet Networking basics; whereby I assigned IP addresses and configured routers.

Career interests and Hobbies

- Digital Transformation and FinTech
- Data Analytics and Innovation Strategy
- Machine Learning and AI
- Bootcamps and vibe coding
- Travelling, Swimming, Football

Certifications

Ethical Hacker Certificate – Issued October 22, 2025

Referees

Dr. Lucy Wachera Kibe.

Lecturer, Department of Informatics -

Technical University of Kenya

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