Peter Wesly Mutugi

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Career Objective

Versatile and motivated Computer Security and Forensics student with hands-on experience in software development, network management, and cybersecurity. Skilled in building secure applications, managing Linux environments, and analyzing network traffic. Passionate about creating innovative, secure digital solutions and continuously learning in the fields of software engineering and cybersecurity. Seeking an internship opportunity to contribute to real-world projects while expanding my technical and security expertise.

Academic Background

Bachelor of Science in Computer Security and Forensics
Meru University of Science and Technology (2020 – Present)

Kenya Certificate of Secondary Education (KCSE)
Nyangwa Boys High School (2016 – 2019) — Grade B

Kenya Certificate of Primary Education (KCPE)
Njarange Primary School (2008 – 2015) — 355 Marks

Technical Skills

Software Development:
- Python (FastAPI), React.js (basics)
- SQLite, SQLAlchemy (ORM)
- JWT & OTP authentication systems

Cybersecurity & Networking:
- Linux administration and configuration
- Network monitoring (Wireshark)
- Cybersecurity awareness and threat detection
- Digital forensics fundamentals
- VPN and secure Wi-Fi concepts

Tools & Platforms:
- Git, GitHub, VS Code, SMTP (Ethereal)

Projects

Blockchain-Based Secure Wi-Fi Billing System (Final Year Project)
- Developed a secure billing system leveraging blockchain technology to ensure tamper-proof Wi-Fi transactions.
- Integrated user authentication and network activity tracking.

Secure Learning Management System (Group Project)
- Designed a platform with multi-factor authentication for secure access and user management.
- Emphasized secure backend communication and data integrity.

Network Simulation and Analysis
- Configured Linux-based servers and used Wireshark to monitor and analyze network traffic.
- Detected potential vulnerabilities in a simulated environment and implemented mitigation strategies.

Work Experience

Industrial Attachment
JFC Munene College — May 2024 to August 2024
- Participated in the development and support of institutional systems.
- Promoted cybersecurity awareness and supported secure network usage.
- Installed software, troubleshooted issues, and managed Linux systems.
- Collaborated on project planning and execution.

Certifications

- Cisco Introduction to Cybersecurity (Completed)
- Cisco Junior Cybersecurity Analyst Career Path (In Progress)