

Peter Musembi Wambua

A highly driven cybersecurity analyst with expertise in vulnerability assessment, penetration testing, and security operations. Proficient in secure software development, network security, and threat mitigation.

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Blog: <https://thecyberlearner.github.io/>

EXPERIENCE

Ultratude Tech, Nairobi — Senior Security and Infrastructure Associate

April 2024 - Present

- Performed vulnerability assessments on the company's infrastructure built in .NET(C#) to eliminate the existing vulnerabilities, and wrote pentest reports leading to a 60% reduction in vulnerabilities and improving overall security posture.
- Implemented SIEM tools in Azure, monitored over 1000 logs daily, and investigated the security events.
- Collaborated with the development team to integrate security best practices throughout the software development lifecycle leading to 40% more secure software.

Hackerbro Technologies, Remote — Red Team Engineer intern

July 2023 - December 2023

- Conducted penetration testing simulations on over 15 companies' systems, identifying and exploiting high-risk vulnerabilities, thereby enhancing the organizations' cybersecurity resilience by over 50%.
- Implemented, tested, and operated security software in compliance with the technical reference architecture. Performed ongoing security testing and code reviews to uncover vulnerabilities and stay current on IT security trends.
- Generated comprehensive reports on penetration testing activities, highlighting over 50 key findings and recommendations over the internship period, leading to over 50% improvement in the organization's overall security posture.

Cyb3rk1math1 — CTF Player

July 2022 - Present

- Contributed to this award-winning CTF team, consistently placing in the top 4 of over 15 national and international competitions, showcasing advanced skills in offensive security and team collaboration.
- Specialized in penetration testing challenges (web, Android, boot2root), achieving a 90% success rate in solving security vulnerabilities, further honing practical skills in exploitation and remediation techniques.
- Collaborated with team members to develop innovative solutions to problems, completing over 100 challenges across various categories, and demonstrating teamwork and problem-solving skills. Constantly learned over platforms like TryHackMe, HackTheBox, and OffSec.

PROJECTS

Static Testing Django Application — [mobileWatchDog](#)

- As a sole developer, I developed this static testing application for mobile APKs using the Django framework. It is pattern-based.

Django Password Manager — [BadPass](#)

- A secure password manager that I developed using Django and implemented the best security features.

Himaya — [Himaya](#)

- I worked in a team of 3, as the main developer of this email add-on using Apps Script to detect ransomware in emails.

SKILLS

- Penetration Testing and Vulnerability Assessment, Security Operations
- Active Directory and Wireless Penetration Testing
- Networking, Cryptography, Linux, Python, C
- Metasploit, Burp Suite, SIEM, EDR, SOAR, Wireshark
- Project Management, Communication Skills, Problem-Solving, Leadership, Team Collaboration

CERTIFICATIONS

- [Certified Network Security Practitioner\(CNSP\)](#)
- [Practical Ethical Hacking\(PEH\)](#)
- [Certified Threat Hunter by VTFoundation](#)
- [Secure Deployment of Web Apps by CTFROOM](#)

EDUCATION

Dedan Kimathi University of Technology — BSC in Computer Science([Reference](#))

August 2020 - May 2024

- Demonstrated leadership by co-founding the Cyber Security Club of Kimathi and leading technical sessions.

Cyber Shujaa, — Network and Cloud Security

September 2024 - Present

- Gained proficiency in designing and securing network architectures and implementing best security practices in cloud infrastructures including AWS, Azure, and GCP.