# 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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## EXPERIENCE

### Ultratude Tech, Nairobi — Senior *Security and Infrastructure Associate*

April 2024 - January 2025

- 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*

January 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)
- Certified Threat Hunter by VTFoundation
- Practical Ethical Hacking(PEH)
- Belkasoft Forensics

## EDUCATION

### Dedan Kimathi University of Technology — *BSC in Computer Science*

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.