

Daniel Wambua

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Cybersecurity researcher and ethical hacker with a passion for breaking things to make them stronger. Currently pursuing Information Technology while actively participating in CTFs, hackathons, and security research. Specialized in penetration testing, vulnerability assessment, and security architecture across cloud, web, and network infrastructures. When I'm not hunting bugs or solving cryptographic challenges, I'm building secure applications and sharing knowledge with the community. Driven by curiosity, continuous learning, and the mission to make cyberspace safer for everyone.

Experience

Karatina University

INFORMATION TECHNOLOGY STUDENT & INNOVATION CLUB MEMBER

August 2023 – Present

- Pursuing Bachelor of Science in Information Technology with focus on cybersecurity
- Active member of university innovation club contributing technical knowledge and skills
- Organizing CTF competitions for IT and computer science students
- Assisting in creation and management of innovation club website
- Participating in cybersecurity workshops and ethical hacking training sessions
- Contributing to university-wide hackathons and coding competitions

Serianu Limited

CYBERSECURITY INTERN

June 2024 – August 2024

- Gained hands-on experience in vulnerability assessments at leading Kenyan cybersecurity firm
- Assisted in penetration testing activities for various client organizations
- Participated in security awareness training program development
- Contributed to incident response procedures and documentation
- Supported SOC operations and threat monitoring activities
- Learned enterprise security tools and frameworks from industry experts

KCB Bank Group

JUNIOR SOFTWARE DEVELOPER (PART-TIME)

November 2023 – May 2024

- Developed secure web applications with focus on banking security standards
- Implemented security controls and secure coding practices
- Assisted in code reviews and security testing procedures
- Worked on mobile banking application security enhancements
- Collaborated with senior developers on security architecture decisions

Education

Karatina University

BSC IN INFORMATION TECHNOLOGY (CYBERSECURITY FOCUS)

Grade: In Progress

I-Tech Computer College

CERTIFICATE IN COMPUTER FUNDAMENTALS & SECURITY OPERATIONS

Grade: Graduated Top of Class (Distinction)

Skills

Penetration Testing	Web Application Testing, Network Penetration Testing, Mobile Application Security, API Security Assessment
Security Tools	Burp Suite Professional, Metasploit Framework, Nmap/Nessus, OWASP ZAP, Wireshark, BloodHound Framework
Programming & Scripting	Python (Security Automation), Bash/PowerShell Scripting, Go (Tool Development), JavaScript (Tool Development), Assembly (Reverse Engineering)
Cloud Security	AWS Security Services, Azure Security Center, GCP Security Command Center, Kubernetes Security Access Management
Cryptography & Forensics	Cryptographic Protocols, Hash Function Analysis, Digital Forensics, Malware Analysis, Reverse Engineering
Networking & Infrastructure	TCP/IP Deep Dive, Network Protocols, Firewall Configuration, IDS/IPS Management, SIEM Implementation
Development (Security-Focused)	Secure Coding Practices, OWASP Top 10, Security Code Review, DevSecOps, Docker/Kubernetes Security

Stats

- Winner - Africa Cyber Security Challenge 2024 (University Category) 🔗
- Top 10 Ethical Hackers - CyberGame Kenya 2025 🔗
- Published 50+ CTF writeups and security research articles 🔗
- Speaker at Kenya InfoSec Conference 2024 - 'Cloud Security for Startups' 🔗
- 1st Place - Kenya National Cybersecurity Hackathon 2024 🔗

Awards

- Africa Cyber Security Challenge - University Winner (2024)** - Led university team to victory in continental cybersecurity competition, solving complex challenges in cryptography, forensics, and web exploitation 🔗
- CyberGame Kenya - Top 10 Ethical Hacker (2025)** - Recognized among Kenya's top young cybersecurity talents for outstanding performance in national hacking competition 🔗
- Bug Bounty Hall of Fame - Multiple Programs** - Acknowledged by 10+ major tech companies including Microsoft, Google, and Facebook for responsible vulnerability disclosure 🔗

Projects

- VulnScanner Pro** - Advanced vulnerability scanner with ML-powered detection and automated reporting. Features custom payload generation and exploit chaining 🔗
- CryptoBreaker Toolkit** - Educational cryptanalysis toolkit for learning and practicing various cipher-breaking techniques. Used by multiple universities 🔗
- SecureAPI Framework** - A security-first API framework with built-in authentication, rate limiting, input validation, and threat detection 🔗
- CTF Platform** - Full-featured CTF platform used by Kenya universities. Supports real-time scoring, team management, and challenge creation 🔗
- Network Security Monitor** - Real-time network monitoring tool with threat detection, anomaly analysis, and automated incident response 🔗