

MAUREEN RITA MURIUKI

Cyber Security Analyst

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PROFFESIONAL SUMMARY

- Cybersecurity Analyst with practical experience in penetration testing, incident response, threat detection, and vulnerability assessment.
- Adept at securing systems through hands-on simulations, CTF challenges, and real-world offensive security labs.
- Known for combining technical expertise with effective communication and documentation.

TECHNICAL SKILLS

- Cyber Defense: Threat Intelligence | Incident Response | Splunk Dashboards | Risk Remediation
- Penetration Testing: OWASP Top 10 | Vulnerability Assessment | Web App Exploits | Ethical Hacking
- Technical Tools: Wireshark | Python | Bash | Burp Suite | Nmap | MTR | DNS Spoofing
- Communication & Documentation: Security Reporting | Awareness Campaigns | Executive Briefings
- Certifications: CyberGirls Fellowship | CyberSafe IAM & OWASP | Cisco Threat Analysis | LinkedIn Security Certs (Phishing, SOC Tools)

EXPERIENCE

Freelance Software Developer & Security Analyst (2021 – Present)

- Conducted vulnerability assessments, remediating OWASP Top 10 threats for web apps.
- Designed a real-time emergency response app improving incident reporting by 40%.
- Strengthened authentication systems and implemented secure APIs.

Cybersecurity Attaché – Judiciary of Kenya, Ngong Law Courts (2023)

- Secured internal networks, maintaining 99.9% uptime for judiciary systems.
- Improved database access controls and supported digital workflows.
- Resolved IT infrastructure incidents and trained users on safe system usage.

Capture The Flag (CTF) Participant – Cyberspace Foundation (2023)

- - Performed real-world exploit research, cryptography, and penetration testing.
- - Collaborated with teams to defend networks under simulated cyber attack.

PROJECTS

Damn Vulnerable Web Application (DVWA) Pentest

- Executed a full penetration test using Kali Linux against DVWA.
- Identified and exploited OWASP Top 10 vulnerabilities (XSS, SQLi, Command Injection).
- Documented findings with screenshots and remediation recommendations.

Custom Nmap Vulnerability Scanner Script

- Built a Python wrapper for Nmap to automate scanning for known vulnerable ports and services.
- Parsed scan output to generate summary reports for quicker analysis.

Network Mapping and Analysis with MTR

- Used `mtr` and `traceroute` for end-to-end diagnostics and bottleneck detection.
- Visualized latency and packet loss across multiple hops to assess weak points.

DNS Spoofing & Traffic Analysis with Wireshark

- Simulated DNS spoofing attack and captured traffic using Wireshark.
- Interpreted DNS queries/responses to demonstrate vulnerability to MITM attacks.

VIRTUAL EXPERIENCE PROJECTS – FORAGE (2025)

AIG Shields Up – Cybersecurity Analyst Simulation

- Wrote Python scripts to brute-force decryption keys simulating ransomware scenarios.
- Researched CISA vulnerabilities and drafted team remediation emails.

Commonwealth Bank – Cybersecurity Generalist Simulation

- Built Splunk dashboards to detect customer fraud trends.
- Designed infographics on password safety using ACSC advice.
- Conducted web app pentesting and proposed remediation strategies.

Mastercard – Security Awareness Analyst Simulation

- Detected phishing threats and trained at-risk teams.
- Proposed department-specific security awareness courses.

Tata Consultancy Services – IAM Analyst Simulation

- Evaluated IAM strategies aligning with business goals.
- Delivered executive reports outlining security improvements.

CERTIFICATIONS AND TRAINING

- CyberGirls Fellowship – Practical cybersecurity training in ethical hacking, career readiness & labs (2023)
- CyberSafe Security Training – IAM & OWASP Fundamentals (2023)
- Cisco Security Courses – Network Defense & Threat Analysis (2023)
- LinkedIn Learning Certifications – Phishing, SOC Tools, Threat Modeling (2024)

LEADERSHIP & VOLUNTEERING

President – General Assembly, Model United Nations (University Level)

- - Led discussions on AI regulation, digital sovereignty, and cyber law.
- - Facilitated policy writing and diplomacy under pressure.

UNDP Student Ambassador – 2023

- - Advocated for cybersecurity awareness and digital inclusion in Africa.
- - Participated in community innovation drives and secure tech access campaigns.

EDUCATION:

- BSc. Information Technology - (Dedan Kimathi University of Technology)
- Relevant Coursework: Network Security | Secure Software Development | Cybersecurity Fundamentals