Emmanuel Tega Agbragu

Cybersecurity Engineer

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SKILLS AND CERTIFICATION

- **Languages:** Python, C/C++, Bash, HTML, CSS, JavaScript, Java, PHP
- **Tools:** Nmap, Nessus, OpenVAS, Metasploit, BurpSuite, OWASP ZAP, OSINT tools, Ghidra, Elasticsearch, Symantec DLP, Docker, Wazuh, Cyberark, Wireshark, Security Onion
- **Frameworks:** OWASP, NIST, CVE, MITRE ATTACK
- **Database:** MongoDB, MySQL, PostgreSQL, Redis, Microsoft SQL Server
- **Other Skills:** Leadership, Problem Solving, Collaboration, Communication, Team Player
- **Certification: Certified Ethical Hacker (CEH) Master - EC-Council**

WORK EXPERIENCE

Cylab Afica/Upanzi Network · Kigali, Rwanda
Vulnerability Assessment Consultant   June 2024 - Present

- Conducted security assessments on government e-services using OWASP Security Framework, identifying vulnerabilities and providing actionable remediation.
- Discovered over **400**confirmed vulnerabilities, including **150** high-severity issues such as SQL injection and XSS, across the e-government websites of **55** countries tested
- Eliminated false positive results through manual testing of approximately **50,000 URLs**, ensuring accuracy of security findings.
- Collaborated with cross-functional teams to validate findings and develop practical mitigation strategies aligned with available resources.
- Developed and co-authored a formal research report evaluating the accessibility and impact of digital government services, presented to technical and non-technical stakeholders

Lumenave International Limited · Lagos, Nigeria
Cybersecurity Engineer   April 2021 - June 2023

- Led a team of **5** engineers implementing new cybersecurity solutions, completing all project deliverables on time and under budget.
- Oversaw smooth operations for all deployed cybersecurity solutions by providing onsite and offsite technical support
- Reduced malware infections by **40%** through implementing a multilayered security system incorporating IDS/IPS, antivirus, anti-spam, anti-spyware, and network monitoring to improve the overall network infrastructure.
- Designed and performed server and security audits, system backup procedures, and other recovery processes, improving data protection and system reliability
- Lowered the rate of phishing clicks by **25%** by educating end users on cybersecurity best practices
- Implemented and managed firewalls and endpoint security solutions, strengthening the organization's perimeter defense against threats

PROJECTS

- **Cybersecurity in E-Government Services: A Systems-Level Recommendation Report** - Co-authored a formal recommendation report evaluating the accessibility and impact of digital government services on **400+** vulnerabilities discovered
- **Vulnerability Assessment and Penetration Testing** - Conducted a comprehensive penetration test on a simulated corporate environment as part of a red team exercise; discovered several vulnerabilities, such as file upload vulnerability and gaining unauthorized access to sensitive data
- **Plaid Shell** - Built a fully featured shell that runs on Linux, handling various commands such as 'echo', 'cat', 'grep', and 'sed', gaining insights into system-level programming and terminal interaction.
- **Data Loss Prevention** - Implemented enterprise-wide data loss prevention solutions to protect against unauthorized data modification, disclosure, and destruction using Symantec DLP to enhance perimeter security monitoring and incident detection.

EDUCATION

Carnegie Mellon University   Master's in Information Technology, May 2025
Degree: Information Technology   **CGPA: 3.79/4.00**
University of Benin, Edo, Nigeria   Bachelor of Science, May 2025
Degree: Pure and Applied Physics   **CGPA: 4.54/5.00**