

## MOJETIOLUWA BOLAJI-BUSOLA

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### Professional Summary

Cybersecurity professional with over 2 years of experience in penetration testing, ethical hacking, and web application security. Proficient in conducting vulnerability assessments, adversary emulation, and red team operations to enhance organizational security. Skilled in Python scripting for automation and custom tool development, with expertise in OWASP Top 10 vulnerabilities.

### Skills

- **Offensive Security:** Penetration Testing, Red Teaming, Adversary Emulation, Vulnerability Assessment, Ethical Hacking, Web Application Testing, Network Troubleshooting, Python Scripting, PowerShell.
- **Tools & Frameworks:** Metasploit, Burp Suite, Kali Linux, Nmap, Nessus, Cobalt Strike, CAIDO.
- **Compliance & Skills:** Project Management, Team Leadership, Mentoring, Data Analysis, Security Policy Development, Compliance Standards (NIST, ISO 27001), Communication, Public Speaking.

### Professional Experience

#### Vulnerability Assessment and Penetration Testing (VAPT).

Covenant University, Ogun State, Nigeria.

October 2023 – Present

- Conducted advanced penetration tests and red team operations across diverse network environments using tools such as Metasploit, Burp Suite, Nmap, Nessus, and Cobalt Strike, reducing security incidents by 25%.
- Performed adversary emulation to simulate real-world cyber threats, identifying critical vulnerabilities and providing actionable recommendations to enhance system resilience.
- Developed and maintained custom Python scripts to automate vulnerability scanning and exploitation processes, improving efficiency by 96%.
- Led cross-functional security teams to identify and remediate system weaknesses, reducing incident response time and operational costs by 79% through AI-driven threat detection tools.
- Ensured compliance with industry standards by aligning security practices with regulatory requirements, including NIST and ISO 27001.

#### Project Management & Coordinator

Covenant University, Ogun State, Nigeria.

May 2025 – July 2025

- Directed cross-functional teams to deliver projects on schedule and within scope, utilizing Agile methodologies.
- Facilitated sprint planning and retrospectives, improving project turnaround time by 30%.
- Maintained accurate records and streamlined data management systems using Python automation.
- Identified workflow inefficiencies and recommended process optimizations, enhancing team productivity.

#### Network Configuration and Support Technician

Higher Ground Integrated Academy, Ekiti, Nigeria.

June 2022 – December 2023

- Led cross-functional teams to identify and remediate infrastructure weaknesses, ensuring robust network security.
- Diagnosed and resolved connectivity issues, increasing network uptime by 99.97%.
- Configured network devices for stable campus connectivity, incorporating vulnerability assessments.

### Projects

- **DNS Enumeration Tool (Python):** Built a custom DNS enumeration tool in Python, automating reconnaissance and reducing manual effort by 40% in penetration testing engagements.
- **Honeypot Deployment:** Designed and deployed a honeypot to simulate vulnerable services, capturing attacker behavior and enhancing threat intelligence.
- **Keylogger (Python):** Developed a proof-of-concept keylogger for red team demonstrations, highlighting the risks of unmanaged endpoints and reinforcing awareness training.
- **Intrusion Detection System (Python):** Created a Python-based IDS to monitor traffic and detect suspicious activities, reducing manual log analysis time by 60%.
- **PortSwigger Labs:** Completed 40+ labs covering OWASP Top 10 vulnerabilities (XSS, CSRF, SSRF, SQLi).

### Education

Bachelor's degree in Computer Science, Covenant University, Ota, Nigeria.

### Certifications

AWS Cloud Practitioner | ISC2 Certified in Cybersecurity (CC) | Google Cybersecurity Professional | Cisco Ethical Hacker | OBTranslate Prompt Engineering