Andrew Oppong-Asante

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Professional Summary

Cybersecurity Specialist with expertise in cloud security, penetration testing, and secure network design. Skilled in attack simulation, vulnerability remediation, and incident response using tools such as Metasploit, Burp Suite, Docker, Terraform, and Ansible. Experienced in IAM, digital forensics, automation, and threat reporting, with a proven ability to deliver actionable security recommendations and strengthen cloud infrastructure resilience.

Education

University of Energy and Natural Resources – Sunyani, Ghana   **Sep 2019 - Oct 2023**
BSc, Computer Engineering
- **GPA:** 3.06
- **Achievements:** Graduated with Second Class Upper honors
- **Coursework:** Secure Network Systems, Data Communication & Networking, Operating Systems, AI, Database Management, Engineering Mathematics, Analytical Reading and Reasoning, Data Structures And Algorithms, Probability and Statistics For Engineers

Capstone Project

Safe and Efficient Self-Driving Car System using Computer Vision and Sensor Fusion
- Built autonomous vehicle framework integrating OpenCV & sensor fusion for lane detection, obstacle avoidance, and real-time decisions.
- Technologies: Python, ROS, Sensor Fusion Frameworks
- Addressed privacy and regulatory considerations with secure data handling.

AWS Penetration Testing Lab
- Designed multi-subnet AWS cloud lab (attacker, DVWA target, and internal subnets).
- Exploited DVWA with Command Injection, SQLi, and Brute Force.
- Achieved privilege escalation (SUID, cronjob, misconfigured binaries).
- Pivoted laterally using SSH tunnels and proxy chains.
- Deployed Cowrie honeypot, tested firewall evasion, and documented mitigations.

Containerized Reverse Proxy with Traefik
- Deployed Docker-based reverse proxy supporting HTTPS, load balancing, and service discovery.
- Implemented HSTS, firewall rules, and monitoring with Prometheus & Grafana.

Multi-Network Containerized Environment
- Simulated segmented Docker networks with enforced security via iptables and bridge rules.

Professional Experience

University of Energy and Natural Resources   **Nov 2023 - Oct 2024**
Teaching & Research Assistant
- Enhanced student proficiency in cybersecurity labs, improving average scores in Nmap/Wireshark by 50%.
- Improved security protocol efficiency by 25% through experimental project designs.
- Assisted over 400 students with grading, tutorials, and mentorship, enhancing their understanding and performance in coursework

Hackscience Technologies   **Oct 2022 - Dec 2022**
Cybersecurity Associate (Intern)
- Performed 20+ penetration tests across enterprise networks, identifying and remediating vulnerabilities.
- Conducted forensic investigations to mitigate breaches and ensure data integrity, strengthening overall security posture
- Trained client teams in cybersecurity awareness, leading to improved compliance rates and better adherence to cybersecurity policies

Technical Skills

- **Cybersecurity Tools**: Metasploit, Burp Suite, Wireshark, Nmap, Cowrie
- **Programming**: Python, SQL, Bash, C++, PowerShell scripting, Shell Scripting
- **Cloud & Infrastructure**: AWS (EC2, VPC, IAM, Security Groups, Route Tables, S3, EBS, EFS, Route 53, Load Balancers), Terraform, Ansible
- **Containers & Virtualization**: Docker, VMware, QEMU/KVM
- **Operating Systems**: Kali Linux, Parrot OS, Debian, Windows, Windows Server Administration (Active Directory, Group Policy, SCOM basics)
- **SIEM Platforms**: Wazuh

- **Technical Soft Skills**: Incident Response & Security Operations, Vulnerability Management & Assessments, Threat Intelligence & Cybersecurity Concepts, Scripting & Automation, Cloud Operations & Networking Fundamentals, Cybersecurity Policies & Training, Cross-Platform Proficiency (Linux & Windows), Basic Computer and Technical Support Skills
- **Interpersonal Skills**: Analytical & Problem-Solving Skills, Attention to Detail, Independent Work, Communication (Written & Verbal), Collaboration & Team-Oriented Mindset

Certifications

- **EC-Council**: Ethical Hacking Essentials, Digital Forensics Essentials
- **Cisco**: Network Security, Endpoint & Systems Security, SOC Fundamentals
- **IBM**: Cybersecurity Essentials
- **AWS**: Cloud Practitioner (via re/Start, AmaliTech)
- **Microsoft/GI-KACE**: AI and Machine Learning

Achievements

- Recognized for innovative Capstone project on autonomous systems.