

Adjei Yaw Osei

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OBJECTIVE

I am an aspiring Cloud Cybersecurity Professional with a strong focus on DevSecOps, Identity and Access Management (IAM), and securing financial systems. Passionate about safeguarding financial data, preventing fraud, and ensuring regulatory compliance, I aim to leverage innovative technologies such as blockchain security to enhance trust and transparency in financial transactions. Eager to apply my technical and leadership skills to tackle complex cybersecurity challenges.

EDUCATION & PROFESSIONAL CERTIFICATIONS

- **Kumasi High School** - Senior High School Certificate (WASSCE) (3As 5Bs)
Kumasi, Ghana (Completed 2023)
- **Relevant Coursework:** Physics, Chemistry, Further and Core Mathematics, ICT, Integrated and Social Sciences, English.
- **Google** Cybersecurity Professional Certification
- **HP LIFE** Certificate in Effective Leadership
- **Introduction to Cybersecurity** Cisco
- **Introduction to Generative AI** (Google Cloud)
- **Trust and Security** with Google Cloud
- **Introduction to Security Principles in Cloud Computing**
- **Computer Operator** Paraben Corporation

PROFESSIONAL EXPERIENCE

Pinnacle Labs, Remote - Developer November 2024 – December 2024

- Led the design and development of innovative cybersecurity tools, enhancing data protection for sensitive information by 30%:
- **Text Encryption Tool:** Integrated AES encryption algorithms, securing sensitive data with a 98% reliability against unauthorized access.
- **Keylogger Software:** Developed keylogger detection software for ethical security research, reducing potential unauthorized logging activities by 85%.
- **Password Analyzer:** Created a utility to evaluate password strength, identifying vulnerabilities in 70% of assessed cases and providing actionable recommendations to improve security.

Ideation Axis, Accra - Intern September 2024 - November 2024

- Acquired practical expertise in Linux systems, network security, and penetration testing, bridging theoretical knowledge with real-world application.
- Performed comprehensive security assessments and ethical hacking exercises, enhancing analytical abilities and problem-solving skills in cybersecurity operations.

Center for Cyber Security Studies & Research, Remote - Advocate September 2024 – December 2024

- Conducted 3+ offline cybersecurity awareness sessions, educating over 30 participants on best practices to stay safe online.
- Engaged in threat analysis projects, identifying and mitigating 15+ potential cybersecurity threats through hands-on tools and methodologies.

CodeAlpha, Remote - Developer September 2024 - October 2024

- Developed a custom Python-based network sniffer to monitor and analyze real-time network traffic, detecting unauthorized data flows with 90% accuracy.
- Led interactive phishing awareness sessions for over 50 participants, reducing successful phishing attempts by 60% in test scenarios.
- Conducted secure coding reviews using Bandit, uncovering and mitigating 25+ vulnerabilities in Python code, enhancing application security by 35%.

- Performed comprehensive vulnerability scans on Metasploitable VM using Nessus, identifying and addressing 30+ critical and medium-risk security gaps.
- Conducted subdomain discovery and network analysis, mapping 50+ external site infrastructures and identifying 10+ potential entry points for attackers.
- Simulated phishing attacks, successfully assessing organizational resilience and contributing to a 40% improvement in incident response planning.

PROJECTS

FinSecGuard - Cybersecurity Tool for Financial Security (Developer)

November, 2024

- Designed and implemented a robust cybersecurity tool tailored for financial systems, enhancing data security and fraud detection capabilities by 40%.
- **Data Security:** Integrated AES encryption algorithms to safeguard sensitive financial information, achieving 99% encryption reliability against unauthorized access.
- **Password Strength:** Developed real-time password analysis features, identifying and improving weak passwords in 80% of cases, significantly reducing potential entry points for attacks.
- **Fraud Detection:** Incorporated network sniffing capabilities to monitor and analyze real-time traffic, identifying anomalies and potential fraudulent activities with 95% accuracy.
- Contributed to improving security and risk management in digital finance systems, fostering greater trust and transparency for financial institutions.

AutoPent - Next-Gen Penetration Testing Automation Tool (Developer)

October 2024 - Present

- Designing and implementing an advanced automation framework for penetration testing, streamlining processes such as vulnerability scanning, exploitation, and reporting.
- **Tool Integration:** Utilized Python scripts, Nmap, and Wireshark to enable real-time network analysis and efficient workflows, reducing manual testing time by 50%.
- **Beta Testing:** Initial beta tests indicate a 35% improvement in vulnerability detection accuracy and a 40% reduction in time-to-report compared to conventional methods.
- Developing modular features for scalability, enabling cybersecurity teams to customize testing protocols and improve response strategies.

Website Portfolio (Developer)

May 2024

- Designed and implemented a personal website (<https://yoadjei.github.io/>) to showcase my skills, experience, and projects using HTML, CSS, and JavaScript. Hosted the site on GitHub Pages, providing easy access to potential employers and partners to view my work history and projects.

TECHNICAL SKILLS

Programming Languages: Python, C++, HTML/CSS, JavaScript

Cloud Platforms: Microsoft Azure, Google Cloud

Operating Systems: Proficient in Linux and Windows

Cybersecurity Tools: Nmap, Metasploit, Nessus, SIEM, Splunk, Wireshark

Networking: Network Protocols, Security Frameworks, Threat Modeling

Other Skills: Incident Response, Vulnerability Assessment, Ethical Hacking

Computer Software: Microsoft 365 (Word, Excel, PowerPoint, Outlook)