

UCHEOMA OKOMA

Cybersecurity | Security Assessment | Healthcare Security
Claremont, CA (USA) • [Email](#) • [LinkedIn](#) • [Medium](#) • [Portfolio](#)

SUMMARY

Cybersecurity master's student with a medical background, focused on security assessment of APIs, cloud, and healthcare data systems. Hands-on experience identifying and documenting vulnerabilities against the OWASP API Top 10 and NIST frameworks, with a strength in communicating findings clearly to technical and non-technical audiences.

EDUCATION

Claremont Graduate University | M.S. Information Systems & Technology 2025 – Present
Claremont, USA. 4.0 GPA

Seneca College | Post-Graduate Certificate, Cybersecurity & Threat Management 2025
Ontario, Canada 3.8 GPA

V.N. Karazin Kharkiv National University | Doctor of Medicine (MD) 2017 – 2024

EXPERIENCE

Research Contract — Health Informatics & Security | Global Health Intelligence (GHI) 2026 – Present

- Assess the security of healthcare data systems being consolidated into one interoperable platform, mapping data flows, and identifying trust boundaries across multiple source systems.
- Research and apply standards including UMLS, HIPAA, and STRIDE threat modeling to ground security recommendations.
- Build a continuous risk-assessment process and communicate findings through reports, data-flow diagrams, and decision trees for technical and non-technical stakeholders.

SECURITY PROJECTS

API Security Assessment — vAPI Lab | APISEC University (12-week Bootcamp) 2026

- Assessed a vulnerable API against the OWASP API Top 10, identifying five distinct findings including BOLA, credential stuffing, and broken function-level authorization.
- Performed credential stuffing and OTP brute force using **ffuf** against unrated-limited endpoints, recovering valid credentials and bypassing a 4-digit OTP via status-code analysis.
- Documented each finding with reproduction steps, impact, and remediation; published a full technical walkthrough.

API Security Assessment — Damn Vulnerable Bank | APISEC University 2026

- Tested a deliberately vulnerable banking application against the OWASP API Top 10 using Burp Suite and Postman, identifying broken object-level authorization, path traversal, and permissive CORS configuration.
- Prioritized findings by business impact and produced remediation guidance mapped to a production banking context.

Machine Learning in Healthcare | Graduate Coursework 2026

- Cleaned, explored, and modeled a real clinical dataset to predict patient appointment attendance using decision tree and random forest classifiers in Python and Google Colab.

Comparative Study of Vehicular Network Security Frameworks | Research Paper 2026

- Authored a research paper comparing edge-assisted and PKI-based (SCMS) security frameworks for autonomous vehicles, evaluating authentication, privacy, scalability, and real-world industry practice.

TECHNICAL SKILLS

Security & Assessment: OWASP Top 10, OWASP API Top 10, NIST CSF, NIST AI RMF, STRIDE Threat Modeling, Risk Assessment, HIPAA, PCI, SOC 2, MITRE ATT&CK

Tools: Burp Suite, OWASP ZAP, Postman, ffuf, Nmap, Wireshark, Metasploit, Suricata, ELK/Kibana, Docker, AWS

Programming: Python, SQL, JavaScript, Java, R, Bash

Certifications: CompTIA Security+, AWS Cloud Practitioner, AWS Cloud Security Foundations, CyberSafe API Security Certification.