Emmanuel Oni

Security Researcher

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SUMMARY

Highly skilled Application Security Researcher with expertise in cloud platforms, secure development practices, vulnerability management, and compliance with global cybersecurity standards. Experienced in building automated security tools, contributing to bug bounty programs, and developing IoT and web security countermeasures.

SKILLS & INTERESTS

- **Tools & Technologies:** AWS, Docker, Terraform, Burp Suite Pro, Caido, Wireshark, Postman, LLMs, MCP Server Development
- **Programming Languages:** Python, Bash, JavaScript, SQL
- **Security:** Threat Modeling, Security Automation, Vulnerability Management, Web Application Security, API Security, IoT Security, Penetration Testing, DAST, SAST, OWASP IoT Top 10, OWASP Mobile Top 10, OWASP API Top 10, CWE Top 25, CAPEC
- **Compliance & Governance:** GRC, EN 303 645 Consumer IoT Standard, ISO 21434 Standard, CMMC2, ISA/IEC 62443 Standard, EN 18031 Standard
- **Interests:** UX, UI and Product Research, Security Research

PROFESSIONAL EXPERIENCE

Security Researcher
integralOddity, *Toronto, Canada (Remote - Freelance/self-employed)*
October 2025 – Present

- Freelance Security Research in the fields of **IoT, AI and Web Security** with a focus on **discovering new vulnerability classes and AppSec automation opportunities**

Product Researcher
Infinite Frontier Technologies, *Toronto, Canada (On-premises - Part-time)*
April 2025 – Present

- Running an R&D lab focusing on **Augmented Reality Product Research**

Member
Hedrum LLC, *Texas, USA (Remote - Seasonal)*
April 2020 – Present

- Updated the shared knowledge base frequently with new techniques, guidelines and resources.
- **Participated in private and public VDPs/Responsible disclosures** and found bugs like
  - Leaked API keys in live and archived pages leading to control of all customer accounts which eventually led to a revocation of all API keys in production and a redesign of their pages
  - Multiple instances of exposed origin servers behind Cloudflare leading to WAF bypasses
  - Lots of CORS misconfigurations
  - Found a vulnerability in the source code of a password reset implementation that led to arbitrary account takeover without user interaction
  - Discovered payment bypasses in a popular pdf editor app through insecure business logic
- Freelance penetration testing contracts
- **Updated my team's knowledge base frequently** with new techniques, guidelines and resources
- Provided value to the security community by **contributing to webinars and designing CTF challenges** for community events
- Improved teammates' Bug-hunting performance by **finding better targets**
- Developed tools to **automate** Application Security processes

Application Security Researcher
Security Compass Technologies, *Toronto, Ontario (Remote - Full-time)*
September 2022 – September 2025
- Contributed to the design of a next-gen **component-based content model**
- Created **Python scripts** to automatically detect errors in the content library
- **Developed bots** to answer questions based on past knowledge sharing meetings and summarize support requests in order to extract insights
- Provided **internal subject-matter expertise** in IoT and Web Security through knowledge-sharing presentations and handling support Q/A to the wider org
- **Evaluated and trained** new subject matter expert contractors
- **Organized CTF events** to increase team engagement
- Added 30 components to the content library from **Azure and GCP Cloud Services and categories**
- Mapped code scanner issues from **Coverity, Veracode, AppScan and Fortify** to countermeasures
- **Co-ordinated brainstorming sessions** around AI-based improvements to the research team's content creation workflow
- Mapped security frameworks **(OWASP API Top 10, OWASP Mobile Top 10, CWE Top 25, CMMC2, CAPEC, OWASP IoT Top 10, EU RED)** to library content and filled content gaps
- Developed and maintained secure code courses **(Android, Java, C/C++, Vue.js and Rust)**, created micromodules for them and mapped the micromodules to countermeasures
- Analyzed and transformed cybersecurity standards like **EN 303 645, ISO 21434, ISA/IEC 62443, EN 18031 and CIS Benchmarks** into actionable countermeasures
- Created and peer-reviewed various blog posts on relevant **compliance and GRC issues**

Offensive Security Engineer
Cisco Systems Inc, *San-Francisco, USA (Remote - Full-time)*
September 2024 - April 2025
- **Ran design review and penetration testing processes** on new products before release

CERTIFICATIONS
- **eLearnSecurity (now INE) eJPT (Junior Penetration Tester)** | 2020
- **COMPTIA Security+** | 2021
- **AWS Certified Solutions Architect - Associate** | 2024

EDUCATION

York University| Bachelors in Information Technology | 2023
- Active member of Lassonde Cybersecurity Club
- Ranked 3rd in ISSESSIONS CTF 2021

AWARDS
- **Cybersecurity Hackathon** | American Business Council | 2021
- **Nigerian National Cyber Security CTF** | CyberTalents | 2021