Emmanuel Oni

Security Researcher

✉ imannueloni@gmail.com | ☎ +1(438)882-4291 | 🔗 https://www.linkedin.com/in/integraloddity/ | 📍 Toronto, Canada

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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

- **Cloud Platforms & Technologies:** AWS, Docker, Terraform
- **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:** EN 303 645 Consumer IoT Standard, ISO 21434 Standard, CMMC2, ISA/IEC 62443 Standard
- **Tools & Technologies:** Burp Suite Pro, Metasploit, Wireshark, Nessus, Postman, Jira
- **Additional Skills:** Agile/Scrum Methodologies, Automation Scripting

PROFESSIONAL EXPERIENCE

Application Security Researcher
Security Compass Technologies., *Toronto, Ontario*
February. 2024 – Present
- Added 30 components to the content library from Azure and GCP Cloud Services and categories.
- Expanded the content library to account for OWASP API Top 10, ISA/IEC 62443
- Peer-reviewed a C/C++ Secure Coding course, created micromodules for it and mapped them to countermeasures
- Mapped code scanner issues from Coverity, Veracode, AppScan and Fortify to countermeasures
- Co-ordinated brainstorming sessions around AI-based improvements to our content creation workflow

Associate Application Security Researcher
Security Compass Technologies., *Toronto, Ontario*
September. 2022 – February. 2024
- Mapped security frameworks (CWE Top 25, CMMC2, CAPEC, OWASP IoT Top 10) to library content.
- Developed and maintained secure code courses for Android, Java and Rust
- Transformed EN 303 645 Consumer IoT Standard, ISO 21434 Standard and CIS Benchmarks into actionable countermeasures
- Contributed to the design of a component-based content model
- Created Python scripts to detect errors in the content library
- Provided subject-matter expertise in IoT and Web Security
- Built cloud-based lab environments to facilitate the development and improvement of actionable countermeasures
- Organized CTF events to increase team engagement

Member
M4xH3dr00m, *Remote*
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

- o Lots of CORS misconfigurations
- o Found a vulnerability in the source code of a password reset implementation that led to arbitrary account takeover without user interaction
- o 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 good targets
- Developed tools to automate Application Security processes

CERTIFICATIONS

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

EDUCATION

York University| Bachelor's 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