Emmanuel Oni

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Technologies, Skills & Hobbies

Technologies: Python, Bash, SQL, JavaScript, Java, Burp Suite Pro, Postman, Metasploit, Wireshark, Windows, Linux, VirtualBox, Docker, Nessus, Git, GitHub, AWS, Office 365, Raspberry Pi, REST API, XML, JSON, Flask, Java EE (servlets), Wordpress.

Skills: Scripting; OOP; Web Application Hacking; OWASP Top 10; SANS Top 20; Basic Reverse Engineering (x86, x86-64); Burp Suite Plugin Development; Application Security Automation; Bug Bounty; Chrome Browser Extension Development; Wordpress Plugin/Theme code review; Responsible Disclosure; Creative Problem Solving; Technical Writing and Documentation.

Hobbies: Hacking 24/7, making chiptunes with lsdj, video game playing and modding, reading, memes, long distance longboarding.

Relevant Experience

CIBC   **(November 2021 - January 2022)**
Junior Security Analyst / intern   **20 Dundas Street West, Toronto, Ontario**
- **Constructing efficient database queries** to access bulk user information from multiple locations while minimizing duplicates and mismatches and delivering resulting data to the review team.

5hyl0ck (hacker handle)   **(November 2021 - Present)**
Freelance contractor and Security Researcher
- **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 .
- **Performed freelance penetration tests on contract** for international clients

York University   **(April 2022 - August 2022)**
Research Assistant   Toronto, Canada
- Performed literature review on freshly published research papers on data visualization.
- Worked on a browser plugin that assists blind people in extracting useful information from svg images made with javascript libraries that contain analytical information
  - Extended plugin to not only work on D3 but also Highcharts and plotly.
- Main tools: python (flask, opencv), javascript (objects and data structures, nodejs, browserify), xml, svg.

Security Compass   **(September 2022 - Present)**
Associate Application Security Researcher   **Toronto, Canada**
- Stay up-to-date with the latest software security vulnerabilities, protection mechanisms, and related compliance standards
- Develop security content for a broad range of application types that include web, mobile, client/server, desktop, and embedded software
- Work with AppSec experts on building secure coding samples in a variety of languages
- Transform compliance regulations and standards into actionable tasks that can be easily consumed by software developers, dev managers, and DevOps engineers; align and match the mandates of those regulations and standards to existing security controls
- Develop security content for the most recent vulnerabilities and attacks; analyze and improve existing security content
- Technical writing and editing; develop security content using style guides that target technical and non-technical audiences; ensure that security content follows a logical structure, is easy to understand, and is easy to act on
- Develop security and compliance training courses and JITT (Just In Time Training) modules
- Develop Python scripts to automate day-to-day workflows and processes
- Provide subject-matter expertise as a service

Certifications

- **COMPTIA SECURITY+** (2021)
- **eLearnSecurity (now INE) eJPT** (Junior Penetration Tester) (2020)

Education

York University,   4700 Keele St, Toronto, ON
Bachelor's degree (Hons) Information Technology   **(January 2020 - April 2023)**
- Picked up basic OOP and software design principles
- Took courses and worked on multiple projects with classmates spanning: Networking, Cybersecurity, Code Design, Data Science, Data Management, Systems architecture and System Administration
- Member of the Lassonde Cybersecurity club
- Participated and ranked in CTF competitions like ISSESSIONS CTF 2021 (3rd place) with classmates that were also cybersecurity enthusiasts
- Won the Dean's Award for Research Excellence (DARE) 2022
- Placed on the Dean's list 2021/2022
- Volunteered as a tutor to teach python programming to middle school students interested in tech and mentored a specific student on their project on game playing artificial intelligence algorithms (Monte Carlo Tree Search)
- York University Entrance Scholarship.