

Emmanuel Oni

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Technologies & Skills

Technologies: Python, Bash, SQL, JavaScript, Java, Burp Suite Pro, Postman, Flask, Django, Wordpress, Metasploit, Wireshark, Windows, Linux, VirtualBox, Docker, Git, GitHub, AWS, Office 365, Raspberry Pi, REST API

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

Relevant Experience

Security Compass

Associate Application Security Researcher

- Expanded the content library's mapping coverage to account for updates to CWE Top 25, CMMC2, CAPEC and OWASP IoT Top 10
- 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
- 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

(September 2022 - Present)

Toronto, Canada

integralOddity.com

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
- 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

(November 2021 - Present)

York University

Research Assistant

- 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

(April 2022 - August 2022)

Toronto, Canada

CIBC

Junior Security Analyst / intern

- **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

(November 2021 - January 2022)

20 Dundas Street West, Toronto, Ontario

Certifications

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

Education

York University,

Bachelor's degree (Hons) Information Technology

- 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

4700 Keele St, Toronto, ON

(January 2020 - 2023)

- 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