

# 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 Isdj, video game playing and modding, reading, memes, long distance longboarding.

## Relevant Experience

Security Compass	(September 2022 - Present)
<b>Associate Application Security Researcher</b>	<b>Toronto, Canada</b>
<ul style="list-style-type: none"><li>- Expanded the content library's mapping coverage to account for updates to CWE Top 25, CMMC2, CAPEC and OWASP IoT Top 10.</li><li>- Developed and maintained secure code courses for Android, Java and Rust.</li><li>- Transformed EN 303 645 Consumer IoT Standard, ISO 21434 Standard and CIS Benchmarks into actionable countermeasures.</li><li>- Created Python scripts to detect errors in the content library</li><li>- Provided subject-matter expertise in IoT and Web Security</li><li>- Built cloud-based lab environments to facilitate the development and improvement of actionable countermeasures.</li></ul>	
CIBC	(November 2021 - January 2022)
<b>Junior Security Analyst / intern</b>	<b>20 Dundas Street West, Toronto, Ontario</b>
<ul style="list-style-type: none"><li>- <b>Constructing efficient database queries</b> to access bulk user information from multiple locations while minimizing duplicates and mismatches and delivering resulting data to the review team.</li></ul>	
5hyl0ck (hacker handle)	(November 2021 - Present)
<b>Freelance contractor and Security Researcher</b>	
<ul style="list-style-type: none"><li>- <b>Participated in private and public VDPs/Responsible disclosures</b> and found bugs like<ul style="list-style-type: none"><li>- <b>Leaked API keys</b> 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</li><li>- Multiple instances of <b>exposed origin servers</b> behind cloudflare leading to waf bypasses</li><li>- Lots of CORS misconfigurations</li><li>- Found a vulnerability in the source code of a password reset implementation that led to <b>arbitrary account takeover without user interaction</b></li><li>- Discovered <b>payment bypasses</b> in a popular pdf editor app through insecure business logic</li></ul></li><li>- <b>Performed freelance penetration tests on contract</b> for international clients</li></ul>	
York University	(April 2022 - August 2022)
<b>Research Assistant</b>	<b>Toronto, Canada</b>
<ul style="list-style-type: none"><li>- Performed literature review on freshly published research papers on data visualization</li><li>- Worked on a browser plugin that assists blind people in extracting useful information from svg images made with javascript libraries that contain analytical information<ul style="list-style-type: none"><li>- Extended plugin to not only work on D3 but also Highcharts and plotly</li></ul></li><li>- Main tools: Python (Flask, Opencv), Javascript (Objects and Data Structures, Nodejs, Browserify), XML, SVG</li></ul>	

## Certifications

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

## Education

York University,	4700 Keele St, Toronto, ON
<b>Bachelor's degree (Hons) Information Technology</b>	<b>(January 2020 - April 2023)</b>
<ul style="list-style-type: none"><li>- Picked up basic OOP and software design principles</li><li>- Took courses and worked on multiple projects with classmates spanning: Networking, Cybersecurity, Code Design, Data Science, Data Management, Systems architecture and System Administration</li><li>- Member of the Lasseonde Cybersecurity club</li><li>- Participated and ranked in CTF competitions like ISSESSIONS CTF 2021 (3rd place) with classmates that were also cybersecurity enthusiasts</li><li>- Won the Dean's Award for Research Excellence (DARE) 2022</li><li>- Placed on the Dean's list 2021/2022</li><li>- 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)</li><li>- York University Entrance Scholarship</li></ul>	