

# Emmanuel Oni

Toronto, Ontario, Canada E-mail: [integraloddity@gmail.com](mailto:integraloddity@gmail.com) Website: [integraloddity.com](http://integraloddity.com)

## 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

CIBC

(November 2021 - January 2022)  
20 Dundas Street West, Toronto, Ontario

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

integralOddity.com

(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
- 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

York University

(April 2022 - August 2022)  
Toronto, Canada

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

Security Compass

(September 2022 - Present)  
Toronto, Canada

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

## Certifications

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

## Education

York University,

4700 Keele St, Toronto, ON  
(January 2020 - 2023)

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
- 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