

# Shayaan Rashedin

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## Summary of Qualifications

- Third-year Computer Engineering student with solid experience in programming, networking, systems design, and circuit analysis, developed through labs, projects, and core engineering coursework.
- Built a cybersecurity home lab using Kali Linux, Metasploitable2, and Ubuntu running Splunk, where I practice scanning, exploitation, SIEM log analysis, and document all work on my portfolio site.
- Completed the Google Cybersecurity and IT Support professional certificates and currently participating in CyberStart Canada, gaining practical experience across Linux, Windows/AD, networking, cryptography, exploitation techniques, web security testing, and both offensive and defensive tooling.
- Strong leadership, communication, and technical teaching skills developed through my roles as a Youth Engineering Instructor and Director of Education for the TorontoMet Cybersecurity Association, where I plan workshops, teach security concepts, and guide students through hands-on labs.
- **Technical Skills:** Security & Threat Analysis (Splunk, OpenVAS, Metasploit, Hydra), Networking (TCP/IP, SSH, VLANs, DNS), Linux Administration (Kali, Ubuntu, Hardening, Log Analysis), Scripting (Python, Bash, PowerShell, C++), Virtualization (VirtualBox), Databases (MySQL/MariaDB, SQL, SPL), Algorithms & Data Structures.

## Education

### Bachelor of Engineering - Computer Engineering

September, 2023 - Exp. April, 2028

Toronto Metropolitan University, Toronto, ON

- Relevant Coursework: Computer Programming Fundamentals, Electric Circuit Analysis, Digital Systems, Software Systems, Algorithms & Data Structures

## Certifications/Training

- Google Cybersecurity Professional Certificate - Jun 2025
- Google IT Support Professional Certificate - Feb 2025
- Cyberstart Canada - Participant (2025/2026), Selected for national cybersecurity training program; developing skills in cryptography, web exploitation, Linux forensics, incident response, and more.

## Projects

### Cybersecurity Home Lab (VirtualBox - Kali Linux, Metasploitable2, Ubuntu running Splunk):

Built a virtualized lab environment to explore offensive and defensive security concepts. Full write-ups and screenshots available on portfolio: [shayaanrashedin.github.io](https://shayaanrashedin.github.io). The projects include:

- **Network Scanning & Reconnaissance:** Conducted Nmap service/version scans and an OpenVAS vulnerability assessment on Metasploitable2, enumerating 30+ services and identifying critical exposures including vsftpd 2.3.4 backdoor, UnrealIRCd, and distcc.
- **Vulnerability Exploitation:** Validated and exploited vulnerabilities from the reconnaissance phase to gain root shells (vsftpd, UnrealIRCd, distcc), documenting procedures and findings on personal portfolio site.
- **Brute-Force Detection with Splunk:** Simulated SSH brute-force attacks from Kali Linux against Metasploitable2, configured Splunk SIEM to detect SSH brute-force attempts, reducing detection time by 75% (MITRE ATT&CK T1110).

## Experience

### Director of Education - TorontoMet Cybersecurity Association, Toronto, ON

Oct 2025 – Present

- Plan and lead educational cybersecurity workshops and CTF sprint sessions for TMU students, helping participants build skills in Linux administration, networking, and core security concepts.
- Develop instructional materials, coordinate event logistics, and support students during hands-on labs by guiding troubleshooting, reinforcing key ideas, and ensuring an inclusive learning environment.

### Youth Engineering Instructor - Toronto High Park Young Engineers, Toronto, ON

Sept 2024 – Present

- Teach LEGO-based engineering lessons to 20+ students, simplifying concepts like transmissions, gear ratios, and basic programming logic into engaging, age-appropriate activities.
- Create a positive classroom environment by encouraging teamwork and problem-solving, while guiding students through structured builds and interactive engineering challenges.