SEEYEON (STEPHANIE) OH

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Eligible for F-1 OPT work authorization. Does not require visa sponsorship for 12 months.

Aspiring cybersecurity professional with expertise in network protocols, secure software development, and systems programming. Skilled in Python automation, C concurrency, and web app security basics. Demonstrated leadership and adaptability through STEM outreach and international volunteer experiences. Passionate about applying security best practices in cloud infrastructure and application security.

EDUCATION

Stevens Institute of Technology | Hoboken, New Jersey | *M.S Cybersecurity* | Fall 2025 – Expected 2027

Western University | London, Ontario | *B.S Computer Science* | 2021–2025

- Relevant coursework includes Computer Networks, Analysis of Algorithms, and Operating Systems.

CERTIFICATIONS

CompTIA IT Fundamentals + (ITF+) | Oct 2024

SKILLS

Languages & Tools: **Python** (network automation, scripting, parsing), **C** (systems programming, concurrency, IPC), **Java** (OOP, secure coding basics), **SQL & PHP** (web programming, database security awareness), **Socket Programming** (TCP/UDP), **Unix System Calls** (fork, pipe), **pthreads** (multithreading, synchronization)

Concepts: Network Security & Protocols, Secure Software Development, Concurrency & Synchronization, Cryptography Fundamentals, Web Application Security Awareness

Projects

Python-distance-vector-routing: Python simulation of Distance Vector routing algorithm using Bellman-Ford to compute shortest paths in a network, demonstrating strong understanding of networking protocols.

Python-gobackn: Implementation of Go-Back-N sliding window protocol for reliable data transfer over unreliable networks, showcasing practical protocol design and error handling.

Python-chatroom: Multi-client chat application supporting TCP and UDP protocols with message broadcast, illustrating socket programming and concurrent network communication.

C-password-cracking-fork: Fork-based parallel brute-force password cracker in C dividing tasks among child processes, highlighting parallelism and Unix process management.

C-ipc-pipes: Bidirectional interprocess communication using pipes between parent and child processes to split computation tasks, demonstrating IPC and process synchronization.

WORK EXPERIENCES

Dr Song Square Academy | Textbook & Website Developer | Aug 2018 - April 2023 | Toronto

- Created online learning modules using **HTML** and **LaTex**, facilitating their digital transformation from in person academy to online school, resulting in **400%** enrollment increase.
- Provided UX insight and feedback in daily stand ups.

LEADERSHIP & VOLUNTEER EXPERIENCE

Women in Science, Western University - Externals Director | Sep 2023 - Apr 2024

- Organized STEM education events promoting diversity and inclusion.

Salamat Po Philippines Mission Trip - Dental Assistant & Translator | Jul 2023

- Translated, adapted and communicated across cultures in remote healthcare settings.

Global Youth Leaders Canada - President | Toronto | 2017 - 2020

- Led a team of **150 student**s in organizing service projects and events across Toronto to improve access to resources for vulnerable populations.