

Sam Yoo

604-418-0954 | syoo28@my.bcit.ca

Website: <https://www.sam-yoo.com> LinkedIn: <https://www.linkedin.com/in/sam-yoo-bb50b1206/> GitHub: <https://github.com/syoo0295>

TECHNICAL SKILLS

Cybersecurity	Wireshark, Metasploit, Snort, Ettercap, Nmap, hping3, Netcat, Malware Analysis, Social Engineering Toolkit (SET), Firewall/IDS/IPS Management, Vulnerability Assessment & Penetration Testing (VAPT), Threat Intelligence, Incident Response
IT Technologies	Networking, Linux/Windows/macOS, Computer Architecture, Packet Analysis, OSI Model, Log Management, Virtual Private Network (VPN) Configuration, Secure Shell (SSH), Network Protocols (TCP/IP, UDP, IPv4/IPv6), Security Protocols (SSL/TLS, HTTP/HTTPS)
Tools	MS Office, MS Azure, Git, VMware/VirtualBox, UTM
Languages	Python, Java, C, C++, SQL, Bash

EDUCATION

Bachelor of Science in Applied Computer Science Network Security Applications Development <i>British Columbia Institute of Technology</i>	Jan. 2024 – Dec. 2026. (expected)
Computer Systems Technology, Diploma Programming Paradigms option <i>British Columbia Institute of Technology</i>	Sep. 2020 – Dec. 2022

PROJECTS

Phishing Website and USB Attack Simulation	Sep. 2024
<ul style="list-style-type: none">Developed a phishing website to perform credential harvesting through phishing emailsSimulated phishing attacks by creating realistic phishing emails to capture user credentialsImplemented a USB attack simulation to demonstrate how malicious payloads can be delivered through removable mediaTechnology used: Social Engineer Toolkit, Metasploit	
Analysis of Stuxnet	Sep. 2024
<ul style="list-style-type: none">Analyzed the Stuxnet attack by breaking down its lifecycle into the 7 stages of the Cyber Kill Chain frameworkExplored the significance and functionality of each phase in the Cyber Kill Chain (Reconnaissance, Weaponization, Delivery, Exploitation, Installation, Command & Control, Actions on Objectives)Assessed cybersecurity measures that could have counteracted or mitigated Stuxnet at each phase of the kill chain	
Reliable UDP Server with Network Simulation and Visualization	Apr. 2024
<ul style="list-style-type: none">Developed a server, client, and proxy for UDP communication with TCP-like reliability, specifically designed for Linux environmentsCreated a proxy server to simulate network unreliability, including delays and packet lossDesigned a GUI for real-time visualization of packets sent, received, and retransmittedTechnology used: Python	
Packet Manipulation and Intrusion Detection	Mar. 2024
<ul style="list-style-type: none">Manipulated network packets to simulate various types of attacks, observing traffic patterns and analyzeCreated iptables rules to counteract the manipulated packets, improving network defense strategiesConfigured Snort to log and analyze attack attempts, providing detailed intrusion detection insightsTechnology used: hping3, Wireshark, iptables, snort	