

Jonathan Cheung

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WORK EXPERIENCE

Arctic Wolf

Endpoint Security Developer, Intern

April 2023 – December 2023

Remote – Waterloo, ON, CAN

- Designed endpoint detection rules using MITRE ATT&CK, Cyber Kill Chain, and TTPs, applying both stateful and stateless Sigma rules for enhanced threat detection.
- Conducted comprehensive log analysis with Kibana and KQL, identifying IOCs, viruses, and other advanced threats across diverse environments.
- Developed and optimized Python scripts for automation, utilizing Git for version control to support collaborative development.
- Conducted Breach Failure to Detect (BFD) analysis to examine true positives, improving and refining detection rules to enhance detection capabilities.
- Created SysmonSimulator, a PowerShell tool based on Atomic Red Team scripts, to simulate Sysmon events for detection validation.
- Researched emerging threats like Living off the Land attacks and Active Directory exploitation, translating findings to improve MDR capabilities.

EDUCATION

Sheridan College

Honours Bachelor of Information Sciences (Cyber Security)

August 2024

Oakville, ON

- **GPA:** 3.76/4.0
- Member of ISSessions, a cybersecurity club focused on CTF challenges and industry talks, enhancing my cybersecurity skills and knowledge.

Western University

Bachelor of Science, Biology & Psychology

April 2020

London, ON

PROJECTS

File Integrity Monitor – PowerShell

- Developed a PowerShell script to monitor file changes (modification, deletion, creation) in target directories.
- Utilized SHA-512 hashing to track file integrity and detect unauthorized changes.
- Enhanced reporting capabilities to generate detailed logs and notifications for any detected file changes, facilitating prompt incident response.

Windows Reverse Shell - Python

- Built a reverse shell for Windows enabling remote command execution.
- Extracted system information (OS version, IP address, boot time) to gather insights into target environment.

Active Directory Lab Setup for Kerberoasting Exploration

- Created an Active Directory lab environment for Kerberoasting simulations.
- Cracked service account hashes using Empire and Kali Linux, identifying weak passwords and misconfigurations.
- Configured domain controllers, user/service accounts, and group policies for realistic testing.

SKILLS & CERTIFICATIONS

- **Certifications:** Practical Help Desk (TCM Security), Security+ (in progress)
- **Programming Languages:** Python, Windows PowerShell, Bash, Java, SQL, KQL
- **Cybersecurity Tools:** Kibana, Sysmon, Wireshark, Active Directory, tcpdump, Splunk, Nmap
- **Technologies & Tools:** Jira/Confluence, Git, VS Code, Microsoft Suite, VMware
- **Languages:** English, Cantonese
- **Operation Systems:** Microsoft Windows, MacOS, Linux