

Nathan Burns

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🌐 Nathan Burns

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Experience

AutoDesk Inc.

Threat Hunter - Threat Intelligence

- Incoming Threat Hunter at AutoDesk Inc.

Bellingham, WA

June 2022 - Present

Naval Underwater Warfare Center

Matryoshka HoneyPot Project - WWU Cyber Security Department

- Currently working with a group of 3 other WWU students in partnership with the Navy's Underwater Warfare Center to develop a framework on the proper implementation and deployment of honeypots.
- Deliverables include a research paper, presentation, and a honeynet for demonstration purposes.

Bellingham, WA

September 2021 - Present

Western Washington University

Student Security Analyst - PISCES

- Worked alongside 3 other students to monitor the network traffic of Covington, WA.
- We successfully notified the city of numerous anomalies, misconfigurations, and potential malicious activity utilizing an ELK stack and ticketing system
- Documented findings/tasks in a wiki.js page.

Bellingham, WA

January 2022 - Present

Western Washington University

Webmaster/Secretary - Cybersecurity Club

- Responsible for developing and maintaining the club website and organizing club resources, growing the club to over 100 members.
- Utilized public speaking, teamwork, and research skills to deliver weekly meetings to club members.

Bellingham, WA

August 2021 - Present

Western Washington University

Co-Captain - Collegiate Cyber Defense Competition

- Responsible for deploying and hardening Linux systems and preparing relevant technical documentation.

Bellingham, WA

January 2022 - April 2022

Education

Western Washington University

BS in Cyber Security; GPA: 3.5; NSA CAE-CD Certified

- Computer Security, Database Concepts, Secure Software Development, and Technical Writing.

Bellingham, WA

September 2020 - December 2022

Lake Washington Institute of Technology

AAS in Computer Security; GPA: 3.6; Graduated Cum Laude

- Computer and Network Security, Network Administration, and Computer Science (Java).

Kirkland, WA

March 2017 - June 2020

Personal Projects

Personal Website and Blog - React.js, Docusaurus, Github Pages, Cloudflare

- Used to host technical posts relating to malware analysis, network defense, and CTF reports.

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Discord Shell - Python, Bash, PowerShell

- Discord API-powered C2 designed to infect Windows and Linux hosts while evading AV engines.
- Developed in partnership with a fellow student. Created for educational purposes only.

GitHub Repo

ToolBox - Python

- Utility Discord bot created for the WWU Cybersecurity club. Written in Python using Discord.py.
- Logs numerous Discord actions, allows users to upload links to VirusTotal's API, and gives users the ability to download malware samples for analysis using virus.exchange.

GitHub Repo

Signature Based Detection - Zeek

- Zeek rules to detect DNS exfiltration and malicious MQTT usage. This involved manual deconstruction and analysis of the MQTT packet structure to detect a subscribe all topic attack.

Available Upon Request

Research

Deconstructing WhisperGate

- Blog post on a destructive malware sample being used to target Ukrainian systems. Includes Indicators of Compromise, Yara rules to detect activity, and MITRE ATT&CK techniques used.
- Tools Used: Sysmon, YARA, Ghidra, and VirusTotal.

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Mirai Analysis

- Research into witnessed Mirai activity targeting my honeypot. Includes Indicators of Compromise, timeline of the attack, and analysis on the payload.
- Tools Used: TPOT Honeypot Framework, VirusTotal, and Ghidra.

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The Dangerous Impact of the Rise of Cyberstalking

- Academic paper detailing the rise of cyberstalking and its impacts on victims.

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