

WILLIAM MURPHY

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Technical Skills

Programming Languages: C, C++, Java, JavaScript, Python, HTML & CSS, Bash, SQL
Tools/Frameworks: Git, Visual Studio, Vim, Android, Docker, Ansible
Operating Systems: Windows, Linux (Fedora, Rocky Linux, Arch Linux)

Projects

Home Lab September 2022 - Present

- Deployed several applications using Docker for ease of deployment and maintainability.
- Uses a virtual private network to access local services from outside the local network.
- Developed an Ansible project to manage configuration across several machines.

PiHUD May 2020

- Created a heads-up display using a Raspberry Pi Zero remote-controlled over Bluetooth by an Android application.
- Integrates a transparent screen to overlay information on the real world.
- Implemented the server component using Python.

Linux Backdoor December 2019

- Designed a packet-sniffing backdoor for the Linux operating system that uses covert channels to remotely control the targeted computer while remaining undetected.
- Implemented a custom TCP/IP protocol in C++ for command execution and file exfiltration from the target.
- Integrated packet-sniffing functionality using libpcap.

Tumbleweed Tusslers (multiplayer video game) April 2018

- Programmed a networked top down battle royale style video game using Unity.
- Designed & implemented the multiplayer functionality of the game using C++ and C#.

Education

British Columbia Institute of Technology September 2018 – April 2020

Bachelor of Technology, Computer Systems
Network Security Applications Development

British Columbia Institute of Technology September 2016 – May 2018

Diploma, Computer Systems Technology
Data Communications

Employment Experience

Team Lead, Northtec Painting April 2018 – Present

- Performed advanced painting techniques on exteriors and interiors to achieve client satisfaction.
- Trained new staff to manage their daily tasks so that downtime was minimized and project completion times were improved.
- Provided feedback on customer color scheme choices leading to increased satisfaction.

Lead Hand, BC Instant Lawns February 2016 – September 2017

- Managed a crew of landscapers, which resulted in doubled sales compared to the previous year, and increased productivity.
- Resolved conflicts among coworkers when necessary.