

Alex Perrin

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Objective

To refine my technical skills in network systems and security by collaborating in project focused teams, so I may follow my passion for hacking and software development in pursuing a career in network engineering.

Job Experience

Network Infrastructure Technician | Queen's ITServices | Apr 2018 - Sept 2018

Completed a 4 month co-op under Queen's University Network Engineers with the goal of research and assistance with tasks of the Network Infrastructure Team.

- Created model networks of switches and routers using simulation software, before constructing an isolated test network of hardware devices for a project to model the proprietary tiered network infrastructure of Queen's University. Completed a course in CCNA Routing and Switching in preparation of technical projects and knowledge of networking theory.
- Handled technical maintenance of over 150 network closets. Deployed network devices including switches, routers, and servers using CLI configuration to manage switchports, VLAN trunking, and routing protocols, as well as prepared devices for network reimaging.
- Developed and documented Bash server scripts for the automation of manipulating network device statistics into network monitoring software, creating a live feed of the network displayed inside the ITS office.
- Developed and documented AHK macro scripts for automating the import of IT service requests from excel into database software, resolving the need for staff to manually add entries.
- Audited all Queen's operated network closet preceding the planning to upgrade network closet power backups. Generated reports and presented to Network Engineers with recommendations for upgrades and closet maintenance.

Wi-Fi Support Technician | Queen's ResNet | Sept 2019 - Sept 2019

- Assisted new Queen's students during move in week with the installation of personal routers and connection of devices to the Queen's internet network using knowledge of the Queens login domain system.

Volunteering / Related Experience

Hack Western Hackathon | 2018

- Worked with a team of four to develop an IoT device which tracks groceries stored inside a fridge, including a touch display to display quantities and expiration date, as well as a barcode scanner of inventory items.
- Contributed within the team as the backend developer, creating the functionality of the web application using NodeJS, implemented a barcode scanning API, inventory database, and food SKU database API.
- Coordinated deliverables and integrated systems with frontend, hardware, and network developers, as well as gave a sales pitch to the hackathon judges in the form of a product demo.

Queens Network Security Team | Since Sept 2017

- Researched networking theory and concepts such as addressing, routing, security credentials, and management of administrator privileges inside Linux servers.
- Used penetration testing software such as Kali Linux tools for packet interception, vulnerability scanning, key cracking, and privilege escalation on exploitable machines.
- Used intrusion detection software to protect vulnerable machines, as well as educated in many commonly used software and network exploits.
- Competed with the team at the Royal Military Collage of Kingston in the Cyber Defense Exercise (CDX) competition collaborating my technical network skills to score points in a CTF style hacking game.