Carter Conboy

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Relevant Skills & Competencies

Python | Jupyter | PyTorch | C Programming | Assembly Language | Linux | Technical Writing | SQL | TCP Networking | Distributed Systems | Microprocessor Design | Machine Learning | Computer Vision | Data Preparation | System Security | Communication | Mentoring | Electronics |

Work Experience

Junior Cloud Developer   **Queen's University**   **04/2023 – Present**

- Led the end-to-end development of a Multi-Factor Authentication (MFA) management tool, which is relied upon as the critical administration component for a 3K+ user base.
- Developed a suite of tools for provisioning, managing, monitoring, supporting, and deprovisioning over 600 Microsoft Teams resource accounts. Achieved seamless synchronization across 3 cloud services and 1 on-premise service.
- Led the design and implementation of several additional innovative programs, automating complex reporting and provisioning tasks in order to streamline operational efficiency across multiple teams.
- Coordinated dependency updates across widely accessed on-premise infrastructure and led the migration of various capabilities between on-premise systems.

Junior Security Software Developer   **DND**   **04/2021 – 01/2022**

- Implemented enhancements to a prototype cybersecurity capability assessment tool for the Department of National Defence (DND). This involved database redesign and a full-stack migration for a large-scale .NET web application within a DevOps environment. Presented the upgraded capability to DND's Chief Cyber Security Architect and received executive approval for continued development.
- Led the end-to-end development of an automated cybersecurity vulnerability assessment scanning tool with design requirements including seamless cross-platform functionality and military standards for operational reliability. The capability is currently implemented and responsible for protecting mission-critical DND information systems.
- Deployed and maintained an on-premise Azure DevOps environment consisting of multiple Windows and Linux servers.

Full Stack Developer   **QVFT**   **04/2021 – 08/2022**

- Significant contributions to the Queen's Vertical Farming Team (QVFT) including development and operation of a Flask web application, culminating in the successful transition of the project into a production-ready state.

Tech Coordinator   **QHacks**   **04/2020 – 01/2022**

- Designed, implemented, and provided ongoing support for the QHacks Conference website, including React web development of an applicant registration portal, participant dashboard, event countdown timer, and email distribution solution. These highly resilient solutions effectively handled the application and enrollment process for over 750 conference attendees.

Education

BASc Computer Engineering   **Queen's University**   **09/2019 – 04/2024**

- Cumulative GPA 3.88, Graduated with First Class Honours