Craig Pinto

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Skills

Programming Languages: Python, C/C++, Bash, PHP, JavaScript, SQL, HTML/CSS
Tools and Frameworks: Docker, Jenkins, Jira, UML, Azure, Flask, Django, MongoDB, React, Git, GraphQL

Education

Ryerson University *September 2018 – April 2023*
Honours BSc. in Computer Science GPA: 4.18/4.33

Relevant Courses: Machine Learning (**Python**), Data Structures and Algorithms, Databases (**SQL**), Web Systems, Operating Systems, Statistics (**R**), Systems Programming (**C**), Software Design (**Java**)

Work Experience

Junior Software Developer, MDA Space *May 2023 – Present*

- Designed and developed **embedded C++** modules for Canada Arm 3 in a scaled **Agile** environment.
- Led the architecture, development, and integration of RTSP camera application on CanadaArm3 to support 4+ devices, ensuring compatiblity with **VxWorks** real-time operating system (RTOS).
- Managed a tiger team of 6 members as acting scrum master to set up Hardware-in-the-Loop testing.

Software Developer Intern, MDA Space *May 2022 – April 2023*

- Improved build system and Jenkins pipeline with custom flags, achieving a 30% reduction in build and acceptance test time, which supported Test-Driven Development (TDD) workflow.
- Led 4 interns in creating a Python test verification script and parser that streamlined workflow and checked over 900 tests within seconds.

Software Developer Intern, Federal Government of Canada *May 2021 – August 2021*

- Deployed an internal automation portal in an **Agile** environment that streamlines the process of creating **Azure resources**, **reducing the average event hub creation time by 40%**.
- Enabled support for real-time streaming of thousands of large datasets for use in Security Information and Event Management (SIEM) platform.
- Created a **Python Flask** web application with **MongoDB** that uses the **Azure Resource Manager API** to create Azure event hubs and namespaces, **decreasing costs by 10%**.

Full-Stack Developer Intern, DigThisData *May 2020 – April 2021*

- Deployed a **Shopify** app using **Python Flask** with **GraphQL** that helps users set up and track online sales by importing existing products and monitoring inventory, **reducing store setup time by 70%**.
- Optimized API requests to create a company's product line and variants within **30 seconds**.
- Expanded company reach **from 3 to 9 provinces** by enabling support for provincial liquor sales.
- Implemented a data pipeline that automates the daily retrieval of **over 1000 inventory and sales files** using **Python Selenium** and ingests the CSV files into an **SQL** database.
- Generated a sales reporting dashboard using **PHP** and **JavaScript** that supports over **3000 users**.

Projects

Ryerson Aerial Vehicles *(https://github.com/TMet-Aerial-Vehicles)* *September 2021 – May 2023*
Computer Vision and Control Systems Lead

- Developed an autonomous control system with **Python**, **Flask** and **React** for custom drone navigation.
- Communicated with 5 developers to plan and create a long-range passenger transport system.