

EXPERIENCE

Vretta Inc.

Toronto, ON

Data Engineer

May 2023 – Aug 2023

- Sped up long data exports by 60% by adding functionality to the backend Feathers server to automatically scale up the AWS cluster during lengthy tasks
- Developed an Express API which allowed students to transfer to other course sections, taking into account related assignments and lessons
- Wrote SQL queries to automate data validation for a complex set of more than 50 rules

Arctic Wolf

Waterloo, ON

Security Developer

May 2022 – Aug 2022

- Enhanced an internal Python tool used for security investigations, allowing developers to automatically download data, run it through the tool, and then view a summary of the outcome
- Created tests to verify that several hundred symbolic links in different folders exist and resolve to the correct file
- Fixed a tool used daily by security developers to help classify ransomware and automatically create configuration changes by correcting how it pushes changes to the Git repository

DarwinAI

Waterloo, ON

Full Stack Developer

Sep 2021 – Dec 2021

- Expanded Node.js and Flask services to allow images of manufactured parts sent by users to be processed for defect detection using AI
- Collaborated with other developers in an agile team to create an Angular image viewer that allows a user to inspect an image and provide feedback on the AI defect detection and classification
- Wrote unit tests using Jest and Pytest for various backend applications to ensure near 100% code coverage
- Validated the performance and behaviour of SQL functions and backend services by creating system tests which generated millions of data entries in a PostgreSQL database

Uptake

Mississauga, ON

Full Stack Developer

Jan 2021 – Apr 2021

- Developed an application using Angular, NestJS, and TypeORM, which generates completed PDFs from editable templates, saving hundreds of developer hours each year
- Integrated various analytics of oil samples into an existing web application using Ext JS and NestJS, allowing users to see warnings and alerts for various vehicle compartments
- Presented demos of new features and products to senior business analysts and managers

PROJECTS

Signal Relay

Jun 2021

- Developed a [puzzle game in Unity](#) as part of GMTK Game Jam 2021.
- Players would control multiple robots that each required line of sight to either a relay or another robot to reach the end zones of each level.

Vm

Nov 2020 – Dec 2020

- Designed a Vim-like text editor using object-oriented design principles and the Model-View-Controller pattern.
- Developed the program from scratch using C++ and the ncurses library.

SKILLS

Languages: Python, TypeScript, Javascript, SQL, C++, C#, Kotlin, Bash

Tools/Frameworks: Git, Linux, MongoDB, Node, Express, Feathers, Flask

EDUCATION

University of Waterloo

Waterloo, ON

Bachelors of Computer Science, Honours; GPA: 91.8

Sep 2019 – Apr 2024