

EDUCATION

University of Waterloo
3rd Year – Bachelors of Computer Science, Honours, Co-op

September 2019 – Present
Cumulative Average - 88%

TECHNICAL SKILLS

Languages: C++, TypeScript, Python, Java, Scheme, HTML/CSS, SQL

Technologies: Azure, GraphQL, React.js, Next.js, PostgreSQL, MongoDB, TensorFlow, Redis, Git

WORK EXPERIENCE

Undergraduate Research Assistant Waterloo, ON | *May 2022 - Present*

- Applied data augmentation and machine learning to remove artifacts in CT Scans

Software Engineer at ThoughtWire Toronto, ON | *January 2022 - April 2022*

- Performed rapid setup of new pipelines to update, build, and deploy packages on GitHub Packages and Azure Blob Storage through Github Actions, **speeding up build times by >40%**.
- Migrated large dependencies off of outdated SVN registry to the new GitHub cloud to **streamline development cycle for 40+ developers**.
- Developed new Maven plugins to handle and accelerate the build process for unique project types.

Software Engineer at Opentext Corporation Waterloo, ON | *May 2021 - August 2021*

- Created new REST API's with unit tests for the Core Case Management project using Java Springboot that connected to a Postgres database through JDBC.
- Developed new React pages for the frontend, using React Redux to manage state.
- Took leadership of an API automation task and **created automated tests for over 50 components** using JBehave and RestAssured to accelerate the deployment of public APIs.
- Contributed improvements to a library of React components used by developers across Opentext.

Full Stack Developer at SS&C Technologies Toronto, ON | *May 2020 - August 2020*

- Headed a server inventorying tool project that scans cloud servers for VM instances and records all installed packages and executables.
- **Queried over 100 VMs and stored info in a GraphQL database** using MongoDB, and fetched data using REST API calls from an Express server with a Redis middleware.
- Displayed all data on a web app created with React and Relay, and deployed tool onto company cloud using Docker containers to setup environment.
- Tool made callable using an Ansible playbook.

PROJECTS

Flower Identification Android App

- Created android app that identifies flower species from a taken picture.
- Used TensorFlow and Keras to create a Convolutional Neural Network and optimized it with the help of visualisation using Matplotlib, **achieving a validation accuracy of over 80%**.
- Developed app with React Native, and deployed to Play Store.

ReIndenter Web App/API

- Implemented an indenting algorithm formats code to follow the C indentation style.
- Used NextJS to deploy a serverless web app, accessible through the frontend and a REST API.