## Education

#### **University of Waterloo**

2020 - 2025

#### **Bachelors of Software Engineering**

90.1% CGPA

Courses: Algorithms, Data Structures, Databases, Operating Systems, Concurrency, Networks, User Interfaces

## Skills

Languages

Python, C++, JavaScript, Go, SQL, Scala, Java, Kotlin, PHP

**Technologies** Docker, React, Flask, Spark, Airflow, Redis, Grafana, MongoDB, Express, Node.js

# **Experience**.

#### **Software Engineering Intern (Incoming)**

Toronto, Ontario

### **Intact Financial Corporation**

Jan 2024 - Apr 2024

• Design and development of backend solutions for Intact's artificial intelligence teams

### **Software Engineering Intern**

Toronto, Ontario

## Swan Cloud Inc. (FilSwan)

May 2023 - Aug 2023

- Implemented **Flask** server APIs for the creation, assignment, and monitoring of computing tasks distributed to groups of computing providers
- Optimized download speeds for large batches of files in **Python** by downloading files in parallel, reducing download time by over **3x**
- Used **Python** and **Redis** to add filters for a task matching engine to efficiently allocate computing tasks to providers that best fit task requirements
- Integrated blockchain payments to allow for transparent and tamper proof user payments and computing provider payouts

#### **Software Engineering Intern**

Toronto, Ontario

#### **Index Exchange**

Sep 2022 - Dec 2022

- Developed data pipelines with **Spark** and **Scala** to process the financial data of a programmatic advertising platform
- Tracked and sampled advertisements in **Go** to collect viewability data from **millions** of outgoing requests
- Utilized Go and Gin to create and maintain server endpoints used to seamlessly retrieve and present payment information to frontend pages
- Updated filtering logic of ETL jobs with Scala, Spark, and SQL to increase data pipeline throughput by 25,000 new database records every day

**Data Scientist** Toronto, Ontario

Wish

Jan 2022 - Apr 2022

- Wrote an automated reporting job for package delivery metrics using Python, SQL, and Airflow, replacing the manual workflows for dozens of business teams
- Introduced machine learning models that estimated product profits and similarity based on key product traits using allowing for greater analysis into user spending patterns
- Created Airflow data pipelines using Spark, Presto, and Hive to efficiently build and populate database tables with millions of records

**Software Developer** 

Calgary, Alberta

#### **Exempt Edge**

May 2021 - Aug 2021

- Introduced new investor referral system built with **PHP** and **Laravel** to replace and expand upon the previous method used by over **90,000** transactions
- Refactored and optimized **SQL** queries in combination with utilizing hash tables to reduce end user latency by **2.5x**

# **Projects**

#### VIIIm

#### 3rd Place winner of the Cisco Webex Virtual Hackathon

- Full stack web application built with MongoDB, Express, React, and Node is that helped users make food donations
- Developed server APIs in Node. is to handle essential CRUD operations
- Created frontend components for the listings page in React to display and allow users to interact with posts