

EDUCATION

University of Waterloo

Bachelor of Computer Science, Economics Minor - Dean's Honours

Relevant Classes: Objected Oriented Programming (OOP) - Data Structures & Data Mgmt - Algorithms

TECHNICAL SKILLS

C++ - Java - JavaScript - C - HTML - CSS - SQL

React - Redux - Node - Django - AWS

WORK EXPERIENCE

HUAWEI - Toronto, ON

Compiler Software Engineer Intern

Jan 2023 - April 2023

- Implemented matrix multiplication optimizations research in **C++** to Huawei's LLVM compiler, enhancing runtime by **40%**
- Collaborated with the LLVM open-source community and backported **30+** commits to Huawei's compilers, introducing support for ARM's SME extension
- Introduced input verification for ARM's SME extension instructions to identify problems early upstream

AMAZON - Toronto, ON

Software Developer Engineer Intern

May 2022 - Aug 2022

- Created interface in **React & Redux** for Amazon Ads' data lake scheduler to increase user self-service by **30%**
- Added **4** endpoints and **SQL** queries to the scheduler API in **Java** to allow **30+** teams to modify their data schedules
- Created a **JS** client for the scheduler API to allow developers to make calls to the API from any JS projects
- Tested changes using Junit unit tests with **90%** coverage and monitored **80+** weekly API traffic using **AWS** CloudWatch

NOVA - Toronto, ON

Full Stack Developer Intern

Sep 2021 - Dec 2021

- Took ownership and implemented proof of concepts in **React & Redux** for 3 major experimental advertisement features, potentially increasing user advertisement interactions by up to **10%**
- Wrote and presented design documentations to ease-in future development of experimental features
- Redesigned and refactored components to optimize loading speed and bundle size by **10%**

NOVA - Toronto, ON

Front-End Developer Intern

Jan 2021 - Apr 2021

- Implemented **10+** features using **React & Redux** for new social media advertisement formats, supported in **5 million** ads globally, to increase advertisement engagement
- Volunteered for **5+** additional **Django** and Polar's API backend tickets
- Wrote **70+** unit tests in **Python** and **JS** and performed functional and integration tests to ensure high product quality

PROJECTS

Twitter Sentiment Analysis App

- Co-developed a web app in **React** and **Flask**, which retrieved the Twitter's users' overall sentiment on a given topic
- Built and designed user-friendly and intuitive front-end using **React**
- Implemented natural language processing **libraries** to extract sentiment of 100+ tweets accessed via Twitter's REST API