

Andrew Xu

Waterloo, ON | 📞 416-209-2062 | ✉️ ay6xu@uwaterloo.ca

Education

University Of Waterloo

Sep. 2020 – Dec. 2025

Bachelor of Mathematics - Computational Mathematics, Honours Co-op

Waterloo, ON

Relevant Coursework: C++ and OOP, Data Structures, Data-Intensive Computing, Neural Networks

Experience

Intuit Inc

Jan 2024 – April 2024

Software Engineer Intern - DevX

Toronto, ON

- Reduced time-to-merge by **40%** by creating a service in **Node.js** leveraging GitHub and Slack APIs for build/pull request notifications, daily PR digests, enhancing productivity for **70+ teams**.
- Managed CI/CD pipeline through **Jenkins** to deliver information from Github to the service.
- Automated schema change notifications for **500+** tax analysts using **Python** and **Github Webhooks** to extract concise summaries from diffs in Git commits.

Intuit Inc

Sept 2023 – Dec 2023

Software Engineer Intern - DevX

Toronto, ON

- Enabled resource/asset aggregation based on user ownership using **SQL**, **GraphQL**, and **Java** with credential pre-processing through the Enterprise Identity and Access Management (**eIAM**) system.
- Optimized query times by **30%** through migrating DAO implementations to **Spring Boot** JPA queries.

Favorite Medium

Jan 2023 – Apr 2023

Software Engineer Intern

Singapore

- Used **Java (Kotlin)** in an MVVM structure to create custom view components for badging and customizing TabLayout components to spec throughout the TuneIn application.
- Designed time-to-live policies to automatically manage the lifecycle of audiobook data by building **SQL** queries and a worker for flagging and deleting content.

Achievers Inc

May 2022 – August 2022

Software Engineer Intern - Binary Experience

Toronto, ON

- Improved accessibility of the notifications interface for clients by revamping the platform notifications microservice on the backend using **Python (Django)** impacting over **8000 users**.
- Created batch publishing for push notifications by incorporating the **Google Cloud Pub/Sub** framework to create the required topics and subscriptions with **Docker** and **Kubernetes**.
- Engineered interface for testing Pub/Sub pipeline in integration testing.

Exponet Canada Inc

Sept 2021 – Dec 2021

Full-Stack Developer Intern

Mississauga, ON

- Incorporated **6** complete end-to-end features for a logistics management application, utilizing **React Redux w/Sagas**, **Java** (Grails with GORM framework), and **Mongo Compass**.
- Reduced customer friction by centralizing package modification options for orders from Amazon.com such as fetching, rating, voiding, and printing shipping labels using the Amazon Marketplace Web Service API.
- Created and automated an inventory dashboard through data fetched from POs and Amazon sales removing the need to update stock at the end of each day manually

Projects

PennApps XXIV Winner - Don't Ban Us | *Python, NLTK, Node.js, Electron.js*

Sept 2023

- Built a universal chat filtration system to rephrase negative comments into positive messages before being sent, placing top 3 in the Gaming category and receiving the Wolfram Alpha award.
- Used and trained an NLTK model to classify negative comments, ChatGPT API to rephrase messages and Electron.js to listen for text input discretely in the background as a system tray application.

Skills and Interests

- **Languages:** C++, Java, Python, Go, SQL, JavaScript, Kotlin, MATLAB
- **Frameworks:** Spring, Django, Grails, gRPC, GraphQL, PyTest, Node.js, Spark, Numpy
- **Interests:** Freestyle skiing, urban planning, cooking