

# Sophie Qin

THIRD YEAR COMPUTER SCIENCE

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## EXPERIENCE

### Wish / Software Engineer Intern

Jan - April 2020

Designed and built the backend architecture for Flash Sale, a feature where **100+ products are put on sale every X hours daily** using Tornado and MongoDB.

Blocked over **160k fraud accounts** per month by integrating multi-factor authentication requests into the iOS platform.

Increased GMV by **1.5%** and user retention by **2.2%** through creating new onboarding experiences for new users.

Grew user traffic for the Wish Blue program by **20%** through adding Lottie animated promotions.

### Hack the North / Backend Developer

Feb 2020 - Present

Decreasing the Postgres database server load by **100+ database calls** through validating authorization using JWTs.

Migrating the Hack the North server from SQLAlchemy and Python to GraphQL and Typescript.

### Wattpad / Software Engineer Intern

May - Aug 2019

Increased weekly paying users by **15%** through integrating Mopub rewarded video ads into the iOS platform.

Piloted a coin gifting experiment to **50%** of US iOS users, resulting in a projected **\$10k** increase in monthly revenue.

Facilitated a workshop for payment testing using XCUITest for **5+ developers**.

### TD Lab / Developer

Sep - Dec 2018

Improved component positions of a YOLOv2 machine learning app that converts paper wireframes into interactive user interfaces by adding symmetry detection logic.

Prototyped a real-time iOS chat app using Firestore, chosen as best solution during Hack Week.

### UW Blueprint / Project Developer

Sep 2018 - Dec 2019

Developed an Android app in Kotlin to digitize the judging process for **500+ participants** at an annual Ontario dance festival.

Researched and prototyped an object detection machine learning pipeline to detect micro-plastics in liquids using OpenCV, LabelBox.

## SKILLS

### Languages

Python, Swift, C++, Java, C, SQL, HTML/CSS

### Tools

Tornado, Flask, JavaFX, MongoDB, SQLite, Firebase, Treasure Data

## PROJECTS

### Orpheus

A Spotify status menu bar plug-in for MacOS.

### Chamber Crawler 3000

A command line dungeon crawl role playing game in C++.

### Mi Melons / Hack the North 2019

An iOS and VoiceFlow app that guides women through their monthly breast exam.

## EDUCATION

### University of Waterloo

Candidate for Bachelor of Computer Science

Average: 85.3

Expected Graduation: May 2020

### Relevant Coursework

Algorithms

Data Structures

Object Oriented Programming

Human Computer Interaction

Introduction to AI

## INTERESTS

Greek Mythology, Brooklyn 99, Lofi Hip Hop Beats