

# Sophie Qin

Computer Science

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## Work Experience

### Associate Engineer - Monetization

May - Aug 2019

Wattpad

Integrated rewarded video ads into the iOS app, expected to increase weekly paying users by >15%.

Piloted a Wattpad coin gifting system to half of the iOS user base in the US, determined implementation would result in a ~\$5k increase in monthly revenue.

Increased test coverage in the iOS app by facilitating a UI testing session for iOS developers, and writing test documentation for new hires.

### Developer

Sep - Dec 2018

TD Lab

Optimized the location accuracy of a machine learning pipeline through refactoring its position mapping algorithm.

Improved storage and authentication of an internal iOS app by designing and implementing a Firebase database.

Pitched functional prototypes to TD Innovation EVPs for commercialization.

## Projects

### Real-Time Chat and Connect iOS App / 1st Place

TD Hackathon

Leveraged Firestore to connect students with financial advisors through in-app messaging.

Added RESTful APIs to populate a user's news feed with relevant financial information.

### Competition Judging Android App

DanceFest Team, UW Blueprint

Developed an Android app to automate the OSS Dance Festival judging process, increased attendance to 500+ participants.

Utilized Firebase to pre-populate contestant information into digital score sheets and automatically calculate scores to determine winners.

### Chamber Crawler 3000

Applied OOP design patterns to create a text-based dungeon crawl role playing game in C++.

Maximized code scalability by designing software architecture utilizing MVC principles.

## Skills

Swift

Python

C++

C

Objective-C

HTML/CSS

Photoshop

Illustrator

## Education

### University of Waterloo

Candidate for Bachelor of Computer Science

Average: 85.0

Expected Graduation: May 2022

### Relevant Coursework

Object-Oriented Programming

Algorithms

User Interfaces

Operating Systems

Data Structures

## Extracurriculars

### Project Developer

UW Blueprint

### Secretary

UW Women in STEM

## Interests

UX/UI Design

Human Computer Interaction

Greek Mythology

True Crime Podcasts

Zumba