Sophie Qin

sophieqin.me   github.com/sophieq
sophie.qin@uwaterloo.ca   linkedin.com/in/sophie-q

university of waterloo computer science '22

skills

Languages / Python, TypeScript, Swift, C++, Java, C, SQL, GraphQL, HTML/CSS, JavaScript

Tools / React, Flask, Node.js, Tornado, MongoDB, PostgreSQL, Prisma, SQLAlchemy, Firebase, Git, Heroku

experience

Shopify / Backend Developer Intern   Sep - Dec 2020

- Developed features for Shipping Manifests, a web app that allows merchants to group multiple shipping labels into one scannable form using Ruby on Rails, MySQL and GraphQL, resulting in an **87%** merchant adoption rate in beta
- Led the development of merchant feedback user flows for the Shipping Manifests app using React and Redux
- Improved store performance troubleshooting by prototyping a chrome extension that tracks version control between store theme changes and displays a user interface that compares different versions

Wish / Software Engineering Intern   Jan - Apr 2020

- Built the backend architecture, product selection/push notification infrastructure, and custom pricing logic for Flash Sale, a feature that showcases 100+ products on sale every 4 hours, resulting in a **4.91%** increase in GMV
- Blocked over **160k fraud accounts** per month by integrating an internal MFA framework into the iOS app's core requests
- Reduced day 0 drop-off for new users by **12%** through building new iOS onboarding experiences

Hack the North / Backend Developer   Feb 2020 - Present

- Reduced the server load by **hundreds** of database calls through implementing JWT authentication tokens
- Increased platform security by implementing new authentication flows, including silent password encryption upgrades from pbkdf2-sha512 to bcrypt

Wattpad / Software Engineering 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 an estimated **$10k** increase in monthly revenue

TD Lab / Developer Intern   Sep - Dec 2018

- Improved the location accuracy of an iOS machine learning app that converts paper wireframes into interactive user interfaces by adding symmetry detection logic
- Developed 2 independent apps to increase the conversion rate for various target users using Swift, Firebase and Python

projects

Hack the North Discord Bot

- Developed a bot to register and verify **3000+ attendees** in the Hack the North Discord server, using Discord.js and GraphQL to link event attendees' Discord ID to their user account
- Automated **50+ coffee chats** between hackers and sponsors by implementing a finite-state machine to simulate coffee chat interactions as state transitions

DanceFest   Github Repo

- Developed an Android app using Kotlin to automate the Ontario Secondary School Dance Festival judging process
- Utilized Firebase to pre-populate contestants' digital score sheets to streamline adjudication for **500+ participants**

education

University of Waterloo / Candidate for Bachelor of Computer Science   Expected Graduation: Apr 2022

- Relevant Coursework: Algorithms, Data Structures, Object-Oriented Programming, Concurrency, Networks