

Joyce Ji

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EDUCATION

Master of Computer Science, University of Illinois Urbana-Champaign
Data Science

Expected April 2021

Bachelor of Mathematics, University of Waterloo
Computer Science & Statistics double major

June 2018

COMPUTER PROFICIENCY

- Programming languages: Python, Java, C++, JavaScript (React)
- Proficient in full-stack web development and Android mobile development
- Strong data science and statistics background with practical experience in SQL, Tableau, MATLAB and R

WORK EXPERIENCE

Wish

January – April 2017, June 2018 – Present

Software Engineer

Toronto, ON

Software Engineer Intern

San Francisco, CA

- Working on full stack development using **React**, **Python**, and **MongoDB**
- Designed and implemented the internal product catalog APIs with **GraphQL** for a new merchant dashboard
- Developed a new feature that allows merchants to compete for impressions against other similar products by creating and managing their Price Drop campaigns
- Fully migrated product shipping settings from variation level shipping to product country level shipping

University of Waterloo

January – April 2018

Undergrad Research Assistant

Waterloo, ON

- Published *RotoSwipe: Word-gesture Typing using a Ring* in **2019 CHI Conference**
- Worked with Professor Dan Vogel in HCI lab on researching on tilt-based gesture typing methods using a ring
- Developed an Android service that generates swipe traces on Swift keyboard upon tilting the ring by mapping movements of an Arduino device to coordinates on the keyboard; conducted user study independently
- Achieved mean speed of **>14 words-per-minute** with uncorrected error rates near 1% in a five-day user study

Uber

August – December 2017

Software Engineering Intern

Palo Alto, CA

- Developed and integrated a service that uses operators' historical metrics to generate task assignment plans that optimizes total time cost and work quality in maps creation
- Developed an API that predicts when people will run out of work and job ETA based on current job assignment

University of Waterloo

May – August 2016

Undergrad Research Assistant

Waterloo, ON

- Worked with Professor Justin Wan on building an Android app that simulates the performance of various portfolio re-balancing strategies, using real-time and historical stock data pulled from Yahoo finance API

Zynga Inc.

January – April 2016

Software Engineering - Games

Toronto, ON

- Implemented new features and enhancements for an **Android** Chess app using Java and Android Studio
- Developed a group chat feature on the Android app and integrated instant messaging protocol

PROJECTS (GitHub: /ChengJoyceJi)

DiaryWise | ReactJS + Electron | May 2017

- Developed a desktop diary app which uses Microsoft Cognitive Service API to analyze users' psychological status and sends categorized tips to users under depression
- Finalist for HeForShe Equithon 2017 mental health category