

# Kristen Kwong

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## Work Experience

**Apple** - Incoming Software Engineering Intern  
*Siri Client Team* May - Aug 2019

**Apple** - Software Engineering Intern  
*Power & Performance Team* Apr - Aug 2018

- Designed and developed web application to fetch and visualize test results and metrics using **AngularJS**
- Built RESTful API using **Flask**, with back-end data processing and analysis of data gathered from MongoDB, APIs, and other sources
- Developed automation framework with **Python** to run user experience scenarios on iOS devices with Objective-C bridge class
- Merged framework into a pipeline for automatic trigger upon build releases, improving efficiency of the End-User team through automated bug filing, summarized email reports, and screen captures for review and demo

**University of British Columbia** - Teaching Assistant  
*Intro to CS & Relational Databases* Sept 2016 - present

- Current TA for upper level course on relational databases, teaching ER models, relational schema, database design principles, and SQL
- Develop curriculum and create marking rubrics for term project
- Lead weekly labs and tutorials, presenting lectures on core topics

**Netgear** - Software Test Engineer Sept 2016 - present

- Proposed and developed automation testing framework in **Python**
- Performed data analysis on gathered metrics to generate reports
- Extended automation with hardware tools built with **Arduino**

## Projects

**Y86 Disassembler** Jan 2019

- Program written in C that reads an executable binary and interprets data as Y86-64 **Assembly** instructions

**FTP Client** Jan 2019

- Subset of FTP commands implemented in **Java** sockets, with text based interface, according to RFC 959 specifications

**insightUBC** Sept - Nov 2018

- Full stack web app to perform queries for UBC room and course data
- Built backend query engine with aggregation to efficiently retrieve information from imported datasets in **TypeScript**
- Integrated methods to import and manipulate datasets as ZIP files and designed corresponding REST endpoints

## Education

**University of British Columbia**  
*B.Sc., Major in Computer Science*  
GPA: 3.81/4.00  
Expected graduation: May 2020

## Skills

Languages	Technologies	
Python	HTML	Jekyll
C / C++	AngularJS	Flask
Javascript	Node.js	CSS & Sass
Java	SQL	MongoDB
Golang	Git	

## Involvement

**UBC CTF Team**  
Feb 2019 - present

- Compete in Capture the Flag cybersecurity competitions
- 2nd place by points in college division for MITRE STEM CTF

**Technovation Challenge**  
*Team Mentor*  
Jan 2019 - present

- Assist and guide team of 11-13 year old girls pitching and building a mobile app

**nwHacks 2019; nwPlus 2018-19**  
*Co-Director of Local Hack Day*  
March 2018 - present

- Organized UBC Local Hack Day 2018, the largest Local Hack Day in North America, with over 350 attendees
- Planned, scheduled, and manage logistical details for food, venues, sponsorship, mentors, and workshops

**UBC Hacks**  
*Co-Founder*  
Oct 2016 - March 2018

- Organized UBC Hacks 2016 & 2017
- 12-hour hackathons had 200+ students, 20+ sponsors, and 35+ projects
- Designed and produced all marketing materials and branding