

# AMY QIU

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in alqiu 🔄 Lixire

## SKILLS

**PROFICIENT:** C++, Python, TypeScript, Scheme, C, Java  
**FAMILIAR:** HTML/CSS, JavaScript, C#, Webpack, Flask, Swing

## EMPLOYMENT

### Microsoft Software Engineer Intern

Redmond  
Summer 2017

- Improved Task Runner usability as part of the Visual Studio Code team
- Evaluated Task Runner discoverability using Azure Application Insights, Kusto, and PowerBI
- Introduced a Task menu with 15k+ daily uses and Task panel using TypeScript and HTML/CSS
- Increased speed of process title detection in the terminal for Windows 5x by building an asynchronous C++ addon with Nan
- Implemented a terminal switcher for better work flow when using multiple terminals

### Microsoft Explorer Intern

Redmond  
Summer 2016

- Ported API tests from Xamarin for the .NET corefx team
- Designed a live dashboard for API porting progress in powerBI using SQL
- Added surface area to corefx APIs for backwards compatibility of older apps
- Created internal tool filter to detect stubbed APIs in C#

### University of Windsor Graduate Control and Robotics Lab Engineering Summer Intern

Windsor  
Summer 2014

- Analysed path-optimizing programs in MATLAB
- Designed laboratory website and logo
- Read and discussed various Ph.D. candidates' dissertations

## PROJECTS

### Sentigrade · Deltahacks 2017

- Led the team to build a [web app](#) that uses sentiment analysis to correlate fortune 500 stock prices and tweets about them
- Used TextBlob to perform sentiment analysis using a bag-of-words model
- Implemented backend and twitter scrapers with Flask, Tweepy, and Yahoo Finance API

### Eat Social · Hack the North 2016

- Built a [foodie social website](#) in AngularJS with Firebase that pairs people in close proximity and recommends an optimal place to eat
- Worked on the front end UI/UX

### Light Painter · Hack Western 2015

- Worked in a team of four to build a [3D light painter arm](#) using forward kinematics for long exposure photos
- Used delta formation for robot arms for efficiency and simpler wiring
- Worked on solving the inverse kinematics and built the stabilizers
- Built with eight Mountain Dew cans, servos, LEDs, an arduino, and hot glue

## AWARDS

### J. Wesley Graham National Scholarship · University of Waterloo 2017

- Up to 15 awarded nationally for distinguished math and computer science performance
- Awarded the 2nd highest scholarship (\$20,000 value)

### Term Dean's Honours List · University of Waterloo

2017

- Awarded to students with at least a 87% term average

## EDUCATION

### University of Waterloo

3A Honors Computer Science Co-op, 85% CAV, 2020