AMY QIU

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» EMPLOYMENT «

Microsoft — May 2017 to Aug 2017
SOFTWARE ENGINEER INTERN
Redmond

- Was given the question, "Why aren't users using our integrated system for tasks (eg: gulp/grunt/make)?"
- Planned and executed experiment to improve Task usage in Visual Studio Code
- Collected telemetry using Kusto and created a live dashboard in powerBI in order to analyze results
- Concluded that it was a feature discovery issue and introduced a menu item and integrated panel in JavaScript for the tool which increased usage by 20%
- Fixed general bugs which are documented in the GitHub repository

Microsoft — May 2016 to Aug 2016
EXPLORER INTERN
Redmond

- Worked on the .NET corefx team to port API tests from Xamarin
- Designed a live dashboard for API porting progress in powerBI using SQL
- Added surface area to corefx APIs
- Created internal tool filter to detect stubbed APIs in C#

Graduate Control and Robotics Lab — Jun 2014 to Aug 2014
ENGINEERING SUMMER INTERN
University of Windsor

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

» PROJECTS «

SENTIGRADE : DELTAHACKS 2017

- Worked with a partner to build a web app that grades sentiment about companies through tweets and compares them to their stock price
- Used TextBlob API for NLP sentiment analysis using a word bag model
- Implemented the back-end and scraped data with Flask, Tweepy, and the Yahoo Finance API

EAT SOCIAL : HACK THE NORTH 2016

- Worked in a team of three to build a foodie social website that matches people to eat together
- Built in JavaScript and Angular with Firebase
- Mainly worked on the front end UI/UX

PIPETTE AUTOMATION ROBOT : DELTAHACKS 2016

- Worked in a team of three to build a 1D Cartesian robot that can transfer chemicals in precise amounts to sample test tubes
- Designed and built the nozzle mechanism using a dremel, cardboard, and hot glue

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
- Mainly worked on solving the inverse kinematics and built the stabilizers
- Built using eight Mountain Dew cans, servos, LEDs, an arduino, and hot glue

» EDUCATION «

University of Waterloo

3A Honors Computer Science Co-op
2020

» SKILLS «

PROFICIENT	FAMILIAR
C++	C
Python	JavaScript
Scheme	C#
JavaScript	Arduino
SAI	Flask
Java	Microbit

» AWARDS «

University of Waterloo — 2015
J. WESLEY GRAHAM NATIONAL SCHOLARSHIP

- Up to 15 awarded nationally for distinguished math and computer science performance
- Awarded the 2nd highest scholarship ($20000 value)

University of Waterloo — 2017
TERM DEAN'S HONOURS LIST

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

Educational Computing Organization of Ontario — 2014
ECOO COMPUTING CONTEST

- Led an all-female team through a competition focused on solving algorithm-based computing questions

University of Waterloo — 2013
CANADIAN SENIOR MATHEMATICS CONTEST

- Placed 50th out of 7816 students nationally on a full-solution math contest