AMY QIU

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SKILLS

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

EMPLOYMENT

Microsoft — Redmond
Software Engineer Intern — Summer 2017

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

Microsoft — Redmond
Explorer Intern — Summer 2016

- Ported API tests from Xamarin for the .NET corefx team
- Designed a live dashboard for API porting progress in Power BI 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 — Windsor
Engineering Summer Intern — Summer 2014

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

PROJECTS

Sentigrade · Deltahacks 2017

- Led the team to build a web app in Python 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
- Implemented 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
- Solved 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, expected 2020