

# AMY QIU

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## SKILLS

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

## EMPLOYMENT

**Facebook** **Fall 2018**  
Menlo Park  
Software Engineer Intern - Adfinder team

- Designed load stabilizer for ads requests
- Currently implementing in C++ and Apache Thrift

**Google** **Winter 2018**  
New York  
Software Engineer Intern - DRX Quality team

- Implemented a distributed model merger pipeline using FlumeC++ that enforces business constraints on sub-model logs for the ads auction
- Wired a new business entity into real-time bidding targeting servers for a project launch
- Explored using a binary classifier for exchange bidding prediction with TFX and FlumeC++
- Deprecated experiment flags and protobuffers and refactored legacy auction code

**Microsoft** **Summer 2017**  
Redmond  
Software Engineer Intern - Visual Studio Code team

- Built Task menu with 15k+ daily uses and Task panel using TypeScript and HTML/CSS
- Evaluated Task Runner discoverability with Application Insights, Kusto, and PowerBI
- 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

## PROJECTS

**Burd** **Hack Western 2017**

- Built a [simple platformer](#) in Lua and LOVE framework in a team of two in order to learn more about game development
- Implemented the entire physics engine from scratch and most of the backend logic
- Learnt Lua basics in a few hours

**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

**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
- 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 Waterloo National Scholarship** **2018**

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

## EDUCATION

**University of Waterloo**  
4A Honors Computer Science Co-op 2020