

AMY QIU

PROGRAMMER, GRAPHIC DESIGNER, HARDWARE HOBBYIST

» EMPLOYMENT «

Microsoft

EXPLORER INTERN

Redmond

May 2016 to Aug 2016

- 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

ENGINEERING SUMMER INTERN

University of Windsor

Jun 2014 to Aug 2014

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

» PROJECTS «

PIPETTE AUTOMATION ROBOT : DELTAHACKS II

- 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

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

PEBBLE TEXT EDITOR : TERRIBLE HACKS 2015

- Created a simple text editor app for the pebble watch
- Learned JavaScript in four hours in order to create it

CONVERSATION ENDER

- Procedurally generates witty phrases to end awkward conversations
- Built using HTML/CSS and JQuery

ASCENSION

- Worked with a partner to build a turn-based tile RPG in Java over 2 months
- Implemented procedurally built dungeon rooms
- Includes a leveling system, items, and randomly spawning monsters

EDGE OF TWILIGHT

- Worked with a partner to build a Binding of Isaac-like rogue shooter
- Implemented AI using the A* path-finding algorithm
- Written in Python and PyGame

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» EDUCATION «

University of Waterloo

2A Honors Computer Science Co-op
2020

» SKILLS «

PROFICIENT

Java

Python

Scheme

GIMP

LaTeX

FAMILIAR

C

JavaScript

C#

Arduino

Microbit

» AWARDS «

University of Waterloo 2015

J. WESLEY GRAHAM NATIONAL SCHOLARSHIP

- Up to 15 awarded nationally for distinguished math and computer science performance

University of Waterloo 2015

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