

# Andrew Liang

## Software Developer

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## Projects

### **Glide** – (Java, XML, Android Studio)

*July 2015 – January 2016*

Mobile arcade game for Android based on glider mechanics. Practiced proper encapsulation methods to manage multi-threaded activity. Designed and implemented custom game algorithms and followed Android design guidelines. Published on the Google Play Store, achieving a 5.0 rating.

### **Labyrinth** – (C, Tiva LaunchPad, Orbit Booster Pack)

*November 2015*

Maze game for the Tiva Launchpad microcontroller. Implemented Prim's algorithm in C to generate uniquely solvable mazes on an OLED screen.

### **C60** – (PebbleJS, jQuery, HTML, CSS, Firebase)

*Hack the North, September 2015*

Real-time Pebble networking app which enables users to exchange contact details with nearby users while on the go. Based on a geolocation algorithm which simulates the effects of near field communication.

### **Buzz In** – (Python, Pygame, Makey Makey)

*December 2014*

Desktop app built with Python and Pygame for team trivia games, such as *Reach for the Top*. Enables game masters to detect who "buzzes in" first, using self-built, touch-based sensors for the Makey Makey microcontroller.

## Honours and Awards

### **President's Scholarship of Distinction**

University of Waterloo (May 2015)

Awarded to students who have achieved an admission average of 95% or greater

## Skills

- **Languages:** Java, C/C++, Python, XML, HTML, CSS
- **Frameworks:** Android SDK, Pygame, Pebble.js
- **Tools:** Android Studio, Sublime Text, Terminal, Git, WordPress, Sketch
- **Other:** Object-oriented programming, Android design patterns, MVC architecture, UX design

## Experience

### **Technical Editor, Webmaster**

#### **Molecular Physiology**

*December 2015 - Present*

- Improve and maintain layout for [molphysiology.com](http://molphysiology.com), a medical news journal, using HTML, CSS, and WordPress
- Collaborate with founders in making design decisions which promote a user-friendly experience

### **Lifeguard, Swim Instructor**

#### **YMCA of Greater Toronto**

*September 2013 - August 2015*

- Gained teamwork and communication skills from working in a lifeguard team
- Developed sense of time management and initiative from creating lesson plans and submitting reports

## Education

### **University of Waterloo (Waterloo, ON)**

Bachelor of Software Engineering (BSE), 2015 - 2020

## Interests and Activities

- Attending hackathons, solving puzzles (Sudoku, crosswords)
- Acoustic guitar, ultimate frisbee, barbering