

# Han Cheng (William) Gao

1B Computing and Financial Management

E-MAIL [hc2gao@uwaterloo.ca](mailto:hc2gao@uwaterloo.ca) • WEBSITE [wgdev.ca](http://wgdev.ca) • STUDENT ID 20604993

## SKILL SET

**Programming Languages**, C, C++, C#, Java, JavaScript, Python, VBA, XML, HTML5, SQL  
**Problem Solving**, highlighted by achieving awards in math and computing contests  
**Troubleshooting**, trained while volunteering as a help desk supervisor  
**Written and Verbal Communication**, developed from serving clients during volunteer experience and group projects in business courses

## SIDE PROJECTS

### **Personal Website** *December 2015*

- Developed using HTML and JavaScript
- Designed resizable website content using Bootstrap to improve the compatibility
- Implemented content filtering using jQuery to display more relevant content

### **Sea Battle** *March 2015 – August 2015*

- Developed on Visual Studio using C#
- Implemented modular gameplay features using object oriented programming to improve the maintainability of the code
- Implemented gameplay against other players on the same LAN using Microsoft's system.net namespace

### **Swippy Bird (inspired by Flappy Bird)** *December 2013 - June 2015*

- Developed on Android Studio using Java and XML
- Designed a recursive algorithm for procedurally generating the game setting for more interesting gameplay
- Implemented a leaderboard and achievement system with Google Play integration to encourage social competition
- Carefully managed the Android lifecycle to improve compatibility between devices

## VOLUNTEER EXPERIENCE

### **Service Desk Supervisor**, Toronto 2015 Pan-Am Games, Toronto, ON, *June 2015 - August 2015*

- Troubleshoot electronic equipment for a variety of clients
- Collaborated with technology contractors to set up services, including cabling, printers and laptops
- Facilitated communication between the venue technology team, central operations and customers using Cherwell

## EDUCATION

**Candidate for Bachelor of Computing and Financial Management**, University of Waterloo, Waterloo, ON, *Sept. 2015 - present*

**Cisco Certified Networking Associate Routing and Switching**, Cisco Certifications, *July 2015*

## AWARDS

**Euclid Mathematics Contest – Certificate of Distinction**, University of Waterloo, 2015  
Top 25% of 18,284 contestants

**Canadian Computing Contest (Junior Division) – Metro Toronto Champion**, University of Waterloo, 2014

**Canadian Computing Contest (Junior Division) – Certificate of Distinction**, University of Waterloo, 2014

Top 25% of 1,822 contestants

**Pascal, Cayley and Fermat Mathematics Contests – Certificate of Distinction**, University of Waterloo, 2012-2014

Top 25% of all contestants in each contest