# Han Cheng (William) Gao

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#### SKILL SET

Languages: C, C++, C#, Java, JavaScript, Python, BASH, VBA, XML, Swift, HTML5, SQL Technologies: Android Studio, Flask, Visual Studio, .NET, Node.js, XCode, AWS, NGINX Problem Solving: highlighted by strong marks in Math/CS courses and awards in math and computing contests

Written and Verbal Communication: developed from serving clients during experience as a Service Desk Supervisor and group projects in coursework

Customer Service: developed from experience with clients as a Service Desk Supervisor and with internal clients as a Software Developer

### **EXPERENCE**

# **Software Developer,** Okey Labs, Kitchener

May 2016 - August 2016

- o Deployed and improved REST API server running Node.js and MongoDB to AWS server
- Developed BASH scripts to reduce server deployment time
- o Developed Flask management web app with Python to facilitate management of backend server and to provide user analytics
- o Ported IOS app to Android to increase the market reach of the product **Service Desk Supervisor,** 2015 Pan-Am Games, Toronto June 2015 - August 2015
- Troubleshot 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

#### SIDE PROJECTS

#### Finance Macro

- Designed a spreadsheet for calculating financial data on Microsoft Excel using VBA
- o Implemented user forms to better facilitate the entry of large sets of data

# Sea Battle

- Developed on Visual Studio using C# and .NET
- Implemented modular gameplay features using OOP concepts to improve maintainability
- o Implemented gameplay over LAN using Microsoft's System.Net module Swippy Bird (inspired by Flappy Bird)
- Developed on Android Studio using Java and XML
- Designed a recursive algorithm for procedurally generating the game setting for more dynamic gameplay
- Implemented a leaderboard and achievement system with Google Play integration to encourage social competition

## **EDUCATION**

Candidate for Bachelor of Computer Science, Business Option, University of Waterloo, Waterloo, ON, 2016 - 2020

ACHIEVEMENTS CFM Entrance Scholarship, University of Waterloo, 2016

**Term Dean's Honours list**, University of Waterloo, Fall 2015

Cisco Certified Networking Associate Routing and Switching, Cisco

Certifications, July 2015

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