

Han Cheng (William) Gao

2A Computer Science/Business Option

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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

EXPERIENCE

Software Developer, Okey Labs, Kitchener

May 2016 - August 2016

- Deployed and improved REST API server running Node.js and MongoDB to AWS server
- Developed BASH scripts to reduce server deployment time
- Developed Flask management web app with Python to facilitate management of backend server and to provide user analytics
- 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

- 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

SIDE PROJECTS

Finance Macro

- Designed a spreadsheet for calculating financial data on Microsoft Excel using VBA
- 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
- 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