

# Bruce Hong

Computer Science & Business Administration Double Degree – 2A

✉ bjhong@edu.uwaterloo.ca  
☎ (416) 837-0330  
🌐 www.brucehong.com  
in linkedin.com/in/brucejh99  
🐙 github.com/brucejh99

## SKILLS

### Languages:

JavaScript, C, C++, C#,  
HTML/CSS, SQL, Racket  
(Scheme)

### Tools and Frameworks:

Node.js/Express, React, Unity,  
Bootstrap, Azure, Docker,  
Kubernetes, Linux

### Transferrable Skills:

Agile Development,  
Oral/Written Communication,  
Detail-Oriented Mindset

## EDUCATION

### University of Waterloo

Candidate for Bachelor of  
Computer Science | 2022

### Wilfrid Laurier University

Candidate for Bachelor of  
Business Administration | 2022

## AWARDS

### Semi-Finalist, BDO New

### Venture Competition | 2018

Top 10% of teams in a start-up  
pitch competition

### University of Waterloo

### President's Scholarship of

### Distinction | 2017

95+ early admission average

### 1<sup>st</sup> Place, DECA ICDC | 2015

International business  
competition

## INTERESTS

Muay Thai, tennis, ultimate  
frisbee, skateboarding, card  
magic, music

## EXPERIENCE

### Finastra

Software Developer | May 2018 – Aug 2018

- Implemented multi-tenancy in several REST based microservices using **Node.js/Express, SQL and AMQP**
- Designed and developed distributed logging modules and Express-like middleware injection for AMQP protocols using **Node.js, RxJS and SQL** which provided performance tracking and increased messaging reliability by 50%
- Coordinated with DevOps to develop microservice scaffolds which eliminated setup time in microservice development by automatically generating skeleton microservices and associated CICD pipelines
- Implemented new integration testing strategies with **Mocha/Chai** and **SQL** which reduced database costs by 60%

### TakingITGlobal

Summer Intern | Aug 2015

- Managed the Global Youth Action Network application process – responsible for approval or rejection of 400+ applicant organizations based on their alignment with network objectives
- Researched and compiled historical information and statistics used in Explore150 – an initiative to promote Canada's 150<sup>th</sup> anniversary

## PROJECTS

### inCite

React, Cheerio

- Google Chrome extension that scrapes the active webpage to generate citations and add them to bibliographies
- Developing UI with React and web scraping modules using Cheerio

### Multiplayer Pokémon Game

Bootstrap, JavaScript, Node.js/Express, P5.js, SQL

- Browser-based spinoff of classic Pokémon games with multiplayer features such as player vs. player battles and raids
- Organized bi-weekly meetings to decide next steps, assign tasks and ensure proper communication between frontend and backend teams

### Pink Box Apocalypse

C#, Unity, Leap Motion

- Virtual reality game for Oculus Rift where players use weapons to defend themselves from enemies with Leap Motion for hand gesture recognition

### Zombie Survival Game

Node.js/Express, socket.io, Phaser.js

- Multiplayer browser game where players work together to gather resources to survive increasingly difficult waves of attacking zombies