

# BRUCE HONG

COMPUTER SCIENCE & BUSINESS ADMINISTRATION DOUBLE DEGREE - 2A

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## SKILLS

**LANGUAGES:** JavaScript (ES6), C, C++, HTML/CSS, SQL, Racket

**TOOLS & FRAMEWORKS:** Node.js/Express, ReactJS, React Native, Bootstrap, Yeoman, Microsoft Azure, Mocha/Chai

## EMPLOYMENT

### Finastra

May 2018 - Aug. 2018

Software Developer - Research & Development Team

Mississauga, ON

- Implemented multi-tenancy and bug fixes in a set of banking microservices with **Node.js/Express**, **SendGrid**, **SQL**, **AMQP** and **Microsoft Azure** tools and services to meet privacy requirements
- Contributed to the development of a set of platform modules with **Node.js**, **RxJS**, **AMQP**, **Application Insights** and **Cosmos SQL** API which tracked performance, improved reliability and provided uniform syntax across distributed systems
- Coordinated with DevOps to develop a suite of microservice scaffolds and pipeline generators with **Yeoman** and **PowerShell** that allowed template microservices to be created and deployed from scratch in ~15 minutes
- Implemented new integration testing strategies with **Mocha/Chai** and **SQL** API which reduced database operating costs by ~60%
- Led and participated in scrum meetings, project planning and writing new user stories on **Visual Studio Team Services**

## PROJECTS

### Pokémon Harvold

- Browser-based Pokémon game based on classic games with multiplayer features such as raids and player vs. player battles
- UI developed with **Bootstrap** and **JavaScript** with APIs developed with **Node.js** and **SQL**

### Notification Hub

- Google Chrome extension that tracks new notifications/messages from various social media and email accounts
- Extension developed with **ReactJS** with server made with **Node.js** and deployed using **Heroku**

### Pink Box Apocalypse

- Virtual reality game for Oculus Rift where players use weapons to destroy incoming pink boxes before they are reached
- Developed in **C#** using **Unity** and **Leap Motion** modules

### Zombie Survival Game

- Multiplayer browser game where players gather resources and use weapons to survive waves of attacking zombies
- Developed using **Node.js/Express** and **socket.io** to enable real-time bi-directional sending of data

## AWARDS

BDO New Venture Semi-Finalist · Lazaridis School of Business and Economics

Mar. 2018

Top 10% of teams in using research data to develop various financial/environmental models and timelines for a new venture

1st Place International Career Development Conference Personal Finance · DECA

Apr. 2015

Top team out of 1000+ teams in simulations managing various individuals' rent, taxes, banking and spending to maximize net worth

## EDUCATION

University of Waterloo

Sept. 2017 - Apr. 2022

Candidate for Bachelor of Computer Science

President's Scholarship with Distinction for 95+ early admission average

Wilfrid Laurier University

Sept. 2017 - Apr. 2022

Candidate for Bachelor of Business Administration