

# Bruce Hong

Computer Science & Business Administration Double Degree - 2A

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## Skills

### LANGUAGES:

JavaScript (ES6), C, C++,  
HTML/CSS, SQL,  
Racket (Scheme)

### TOOLS &

### FRAMEWORKS:

Node.js/Express, ReactJS,  
Unity, Bootstrap, Azure,  
Mocha/Chai, Git,  
Linux/Unix

### AREAS OF INTEREST:

Product Design,  
Software Architecture,  
User Experience,  
Project Management

## Education

### University of Waterloo

Sept. 2017 - Apr. 2022

Candidate for Bachelor of  
Computer Science

### Wilfrid Laurier University

Sept. 2017 - Apr. 2022

Candidate for Bachelor of  
Business Administration

## Awards

### BDO New Venture Semi- Finalist

Lazaridis School of  
Business and Economics  
Mar. 2018

Startup case competition

### President's Scholarship with Distinction

University of Waterloo  
May 2017

95+ early admission average

### 1st Place ICDC

DECA

Apr. 2015

International business  
competition

## Employment

### Finastra

Software Developer - R&D Team

May 2018 - Aug. 2018

Mississauga, ON

- Developed multi-tenant fund transfer and payment microservices under the CQRS architecture template with **Node.js/Express**, **SQL**, and **Microsoft Azure**
- Designed and developed various logging providers to develop microservice-oriented platform modules including distributed tracing and Express-like middleware injection for AMQP protocols with **Node.js**, **RxJS**, **SQL** and various logging providers
- Coordinated with DevOps to develop microservice and release pipeline scaffolds with **Yeoman** and **PowerShell** that reduced development time by generating and deploying new skeleton microservices in ~15 minutes
- Developed and implemented integration testing tools with **Mocha/Chai** and **SQL** which reduced database costs by 60% during development

### TakingITGlobal

Summer Intern

Aug. 2015

Toronto, ON

- Managed the Global Youth Action Network – responsible for approval or rejection of applicant organizations based on their alignment with network objectives
- Researched and compiled relevant data used in an initiative to promote Canada's 150th anniversary

## Projects

### Pokémon Harvold (Ongoing)

- Browser-based Pokémon game based on classic games with multiplayer features such as player vs. player battles
- Developed UI and gameplay with **Bootstrap** and **JavaScript**

### Notification Hub (Ongoing)

- Google Chrome extension that helps users track and manage new notifications, messages and emails from various social media and email accounts
- Developed extension interface with **ReactJS** and deployed a **Node.js** server to receive webhook payloads using **Heroku**

### Pink Box Apocalypse

- Virtual reality game for Oculus Rift where players use weapons to defend a themselves from incoming enemies
- Player controls and enemy movement developed in **C#** using **Unity** with **Leap Motion** modules for hand gesture recognition

### Zombie Survival Game

- Multiplayer browser game where players gather resources and use weapons to survive waves of attacking zombies
- Developed equipment spawning, zombie pathing and terrain interactions using **Node.js** with the **Phaser.js** game engine and **socket.io** to enable real-time bi-directional communication