# Bruce Hong

Computer Science & Business Administration Double Degree

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## SKILLS

**Languages:**
JavaScript, TypeScript, C, C++, Python, HTML/CSS, SQL

**Tools and Frameworks:**
Node.js/Express, Django, React, React Native, Redux, MobX, Apollo Client, ElasticSearch, Bootstrap, Microsoft Azure, Linux/Unix

## 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 32 of 300+ teams in a competition to design a product, develop business models and pitch it to experts

**University of Waterloo President's Scholarship of Distinction** | 2017
95%+ early admission average

**1st Place, DECA ICDC** | 2015
1st out of 500+ teams in an international business case competition for personal financial management

## INTERESTS

Tennis, badminton, basketball, hiking, lion dance, card magic

## EXPERIENCE

**Secret Mission Software**
Software Developer | Jan 2019 – Apr 2019
- Led the development of several cross-platform mobile applications using **React Native** with **Redux**, **MobX** or **Apollo Client** for state management
- Refactored RESTful APIs and implemented new APIs to support GraphQL queries using **Django Rest Framework**, **Graphene** and **PostgresSQL** to optimize request performance across multiple services
- Began development of a custom, SEO-friendly search engine using **React** with **Next.js** for server-side rendering and **Django** with **ElasticSearch** to provide fast, customizable querying

**Finastra**
Software Developer | May 2018 – Aug 2018
- Implemented multi-tenancy in several RESTful microservices using **Node.js/Express, NoSQL** 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 create microservice scaffolds, virtually eliminating ramp-up time in microservice development by automatically generating microservice templates and relevant CICD pipelines
- Implemented new integration testing strategies with **Mocha/Chai** and **Microsoft Cosmos SQL** which reduced database costs by 60%

## PROJECTS

**inCite**
React, MobX
- Google Chrome extension that scrapes the user's active webpage to generate citations and store them to bibliographies

**Pokémon Harvold**
Bootstrap, JavaScript, Node.js/Express, SQL
- Browser-based spinoff of classic Pokémon games with multiplayer features such as player vs. player battles and raids

**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