# Cristian Brazales

Junior Software Developer

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## EDUCATION

**University of British Columbia**                                      **Vancouver, BC**
*Bachelor of Applied Science – Computer Engineering*                    *Sep 2016 - May 2020*

## KEY SKILLS

| | |
|---|---|
| **App and Web Development** | React Native, Angular, Android Studio, React, HTML, CSS |
| **Data management** | MySQL, SQL server, MongoDB, Power BI |
| **Back End** | Node JS, NET Core, Cloud systems(AWS,Azure) |
| **Programming Languages** | C, C++, Java, JavaScript, Typescript, Python |
| **Hardware design** | Verilog, FPGA, Arduino, Raspberry Pi |
| **Tech platforms** | Matlab, Quartus, Modelsim, Contentful, Salesforce |

## EXPERIENCE

**Rogers**                                                             **Toronto, Canada**
*Software Developer New Grad*                                           *May 2021 - Today*
- Support on multiple projects as a software developer
- Maintain and upgrade production systems and websites (tsc.ca)
- Centralize critical documentation across multiple teams and organize documents structure using Confluence
- Develop the new search widget for tsc.ca with an enterprise search engine (Algolia)
- Migrate and upgrade old legacy systems
- Generate business projection reports using VBA

**WebCreek**                                                           **Quito, Ecuador**
*Software Engineer I (Contractor)*                                     *Sep 2020 - Apr 2021*
- Release fixes to old production systems
- Database optimization by correct indexing and configuration(Mongo DB)
- Support on issue tickets and business requirements (estimates)

**Rogers Communications**                                             **Toronto ON, Canada**
*Technology Co-op*                                                     *Jun 2020 - Aug 2020*
- Assisting with the planning and delivery process of large scale projects
- Working on the coordination between multiple departments,teams and vendors
- Supporting the development of user stories, scope assessment for new projects

**University of British Columbia**                                    **Vancouver BC, Canada**
*Teacher Assistant in Introduction to Computation in Engineering design*   *Aug 2018 - Apr 2020*
- Introductory C programming course for engineering students covering software design principles with a focus on engineering problem-solving
- Supporting students to learn C by answering in-class questions on topics such as functions, loops, file I/O
- Supervising students in programming labs, marking midterms and finals exams

# PROJECTS

### University Capstone Project (SQL/My SQL, Node JS, React, AWS)    *Sep 2019 – Apr 2020*
- Group project.- A fully functional web application for visualizing Trademark-related data, generating PDF reports and business analysis tools on the use of the application
- Individual responsibilities.- Performed the data migration between SQL and My SQL, analyzed and improved the queries' performance, programmed the reporting server and assisted with the full stack development of the application

### Live Rock star (Node Js, React, JavaScript)    *Oct 2019*
- Group project.- A video game designed to use the advantages of 5G Technology. The game streams video frames to the server where a machine learning algorithm responds with the person's head position and game status
- Individual responsibilities.- Programmed the server-side, integrated a machine learning algorithm into the back-end, assisted to develop the web application and API

### Age Restricted Vending Machine (C++, Android Studio)    *Jan 2019 – Mar 2019*
- Group project.- A prototype of a real vending machine remotely secured by the android app. The vending machine scans the id and compares it to a cloud DB. The app requires facial recognition, digital print, expiring confirmation code to access products, and suggestions based on previous purchases
- Individual responsibilities.- Programmed the user interface of the vending machine, helped to develop the mobile app, user interface, data statistics graphs and API

### Rental Finder (React Native, Node Js, MongoDB, AWS)    *Sep 2018 – Nov 2018*
- Group project.- Android and iOS mobile app that aims to improve the search for housing in Vancouver. The app helps to post and search for places in the Vancouver area
- Individual responsibilities.- Programmed the user interface and API for communication between the app and DB

### Smart Secure Door System "HERON" (C++)    *Feb 2018 – Apr 2018*
- Group project.- A prototype of a remotely controlled door system with camera, password keypad, and locks
- Individual responsibilities.- Programmed an Arduino and Raspberry Pi to control the system and password verification between the device and DB

# AWARDS AND ACHIEVEMENTS

### Winners of Rogers 5G Edge Challenge    **Vancouver BC, Canada**
*Rogers 5G Edge Challenge Hackathon*    *Oct 2019*
- Our team was awarded the first place at the Rogers 5G Edge Challenge with the project Live RockStar

### Universities of Excellence Scholarship    **Quito, Ecuador**
*Ecuadorian National Secretary of Higher Education, Science, and Technology*    *May 2015 - May 2020*
- Full ride undergraduate scholarship granted by the Government of Ecuador. It provides full funding to study abroad at one of the world's top universities

# VOLUNTEERING

### University of British Columbia    **Vancouver BC, Canada**
*Vantage Peer Mentor*    *Oct 2017 - Apr 2018*
- Volunteered as a mentor, supporting new international students at UBC. My duties were the following:
- Organized events to support students either by experience or by referring them to the appropriate counseling
- Planned and facilitated the recruitment and selection process of new mentors, learning interview practices

# Languages

- Spanish (Native)
- English (Fluent)
- Italian (Basic)