Cristian Brazales

Software Engineer

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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   *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
- Develop Front-End of internal tools and services
- Maintain and develop Front-End code for prod application Sportsnet.ca

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)