

Cristian Brazales

Computer Engineering Student — Vancouver, Canada

✉ cristianbrazalesmolina@gmail.com

🌐 CristianBrazales

🌐 www.cristianbrazales.com

EDUCATION

University of British Columbia

Bachelor of Applied Science – Computer Engineering

Vancouver, BC

May 2020

KEY SKILLS

App and Web Development

React Native, Android Studio, React, HTML, CSS

Back End

Node Js, Relational and NoSQL DB, Cloud deployments DB

Programming Languages

C, C++, Java, JavaScript, Python

Hardware design

Verilog, FPGA, Arduino, Raspberry Pi

Tech platforms

Matlab, R, AWS, Microsoft Azure, Quartus, Modelsim

EXPERIENCE

Rogers Communications

Toronto ON, Canada

Technology Co-op

Jun 2020 - Today

- 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)

Sept 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

Smart Energy Efficient Room (C)

May 2017 – Jun 2017

- Group project.- Proof of concept of how controlling home appliances by reading outside sensors (temperature and light) can save energy to the customer
- Individual responsibilities.- Programmed the system, using C language, which was later uploaded on the Arduino

AWARDS AND ACHIEVEMENTS

Winners of Rogers 5G Edge Challenge (\$900 in awards)

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

Vantage One honorific mention in project competition

Vancouver BC, Canada

Vantage One Capstone Conference – UBC Vantage College

Jul 2017

- Awarded with an honorific mention for the project of a prototype of Smart energy-efficient room mentioned above

Universities of Excellence Scholarship (\$400K towards education)

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
- Attended training sessions organized by UBC Peer Mentor Programs
- Planned and facilitated the recruitment and selection process of new mentors, learning interview practices

ABOUT ME

- Motivated and eager to learn emerging technologies
- Strong communication skills
- Excellent work ethic, personality, and a tenacious attitude
- Enjoy cooking different cuisines and traveling