

Cristian Brazales

Computer Engineering Student — 2075 Lower Mall Vancouver, Canada

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🌐 CristianBrazales

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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

Back End

NodeJs, Flask, SQL, Cloud deployment of server and DB

Programming Languages

C, Java, JavaScript, R, Python, C++, Matlab

Hardware design and platforms

Verilog, Quartus, Modelsim, FPGA, Arduino, Raspberry Pi

ACADEMIC PROJECTS

Age Restricted Vending Machine

Jan 2019 – Mar 2019

- Group project.- Prototype of a real vending machine remotely secured by android app. The vending machine scans the id and compare 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 physical vending machine, help to the development of mobile app with the user interface, data management between device and DB, statistics analysis of the vending machine for the owner side

Rental Finder

Sep 2018 – Nov 2018

- Group project.- Android and IOS mobile app that aims to improve the search of housing in Vancouver. The app helps to post and search for places in the Vancouver area. User interface developed in react native, back end with NodeJS, mongo DB, and deployed to Amazon Web Services
- Individual responsibilities.- Programmed the user interface using React Native (JavaScript based) and data management between app and DB

Smart Secure Door System “HERON”

Feb 2018 – Apr 2018

- Group project.- 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 device and DB

Smart Energy Efficient Room

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, that was uploaded on Arduino.

EXPERIENCE

University of British Columbia

Vancouver BC, Canada

Teacher Assistant in Introduction to Computation in Engineering design

Aug 2018 - Apr/Sep - Present

- 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

VOLUNTEERING

University of British Columbia

Vancouver BC, Canada

Vantage Peer Mentor

Oct 2017 - Apr 2018

- Volunteered as mentor, supporting new international students at UBC. My duties were the following:
- Organized events to support students either by past experience or by referring them to the appropriate counselling
- Attended training sessions organized by UBC Peer Mentor Programs
- Planned and facilitated the recruitment and selection process of new mentors, learning interview practices

AWARDS AND ACHIEVEMENTS

Universities of Excellence Scholarship

Quito, Ecuador

Ecuadorian National Secretary of Higher Education, Science and Technology

May 2015 - Present 2018

- 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

Vantage One honorific mention in project competition

Vancouver BC, Canada

2017 Vantage One Capstone Conference – UBC Vantage College

Jul 2017

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

ABOUT ME

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