**Samuel Cribb**

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**222161 126 Ave 🢖 Maple Ridge 🢖 British Columbia 🢖 Canada**

**Technical Skills**

**Languages**

**Frameworks/Devices**

**Programs/OS**

* C, C++, C#
* HTML, CSS, JavaScript
* Java, Ruby, Python
* SQL, XML, Matlab
* Assembly, AutoHotKey
* Arduino
* Oculus Rift
* Ruby on Rails
* Git/SVN
* Unity3D, Android Studio
* Windows, Ubuntu
* Mac OS, GIMP
* IBM Bluemix
* FL Studio (Audio)

**Technical Projects**

**CMPT 276 - Software Engineering**

**SightSeers Jan 2015 – Present**

* Designed and programmed a database management system that allows administrators to create, edit, delete and promote other users (Ruby on Rails)
* Assembled HTML, CSS, JS and embedded Ruby that maintained the structure, display and logic behind each page
* Developed code which manually seeded a relational database before the application deployment

**Grade Calculator Jan 2015 – Feb 2015**

* Created a webpage using strictly HTML, CSS and JavaScript which instantaneously calculated the Mean and Median of a user’s grade based on multiple inputs and graphically displayed their GPA
* Achieved the top grade on this class project for implementing extra functionality whilst maintaining well organized and understandable code

**CMPT 379 – Compiler Design**

**Decaf Compiler May 2016 – Aug 2016**

* Implemented a lexical analyzer that tokenized an input string containing Coffee Script like program
* Took the tokenized string an applied a grammar which parsed the string into abstract syntax trees
* Generated assembly code using LLVM from these syntax trees

**Hackathon Projects**

**{Open}:Hack – FireBot (devpost.com/software/firebot-ke8fq1) Jul 2016 – Present**

* Achieved first place at this event for developing FireBot**,** an early warning fire emergency system
* Implements IBM Watson API to and Twilio API to have an AI SMS conversation with user to assess levels of danger
* Uses Telus location API to extract GPS coordinates of user and stores message and location in a Cloudant Database
* Utilizes TMForum Trouble Ticket API and Google Maps API to place location and message onto a Google Map
* Goal is to warn users within a specified radius of reported fire via SMS text message

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**Hackathon Projects Continued…**

**HackTheNorth 2016 – Party Pong September 2016**

* Received an honorable mention for building a Virtual Reality Ping-Pong game for the oculus rift using Unity3D
* Implemented an Arduino’s accelerometers raw data via a COM4 seral port to create a motion sensing paddle
* Scripted in physics, randomized ball serving, paddle centering and rotating, rules and a scoreboard using C#
* Experimented by creating personalized assets in a 3 dimensional environment to enhance the player experience

**Other Work Expirience**

**Golden Ears CheeseCrafters – Maple Ridge May 2014 – May 2016**

* Proficient in using the computer systems around workplace and was often recruited to fix technical issues
* Commended often for excellent sales numbers and ability to diffuse situations involving difficult customers
* Given responsibility of running weekly farmers market tents during high volume events
* Required to quickly and accurately calculate customers’ orders without use of computer or calculator

**Tree Learning – Vancouver Jan 2013 - Present**

* Board of directors at TL; a project designed to better organize data and aid as an education/teaching tool
* Working in a team of 8 to develop a working VR prototype that will enable users to create educational trees
* Seeking for available patents and developing requirements specifications for next stage in project

**Education**

**Simon Fraser University – Burnaby Jan 2015 - Present**

* BSc Computing Science
* Business Administration Minor
* Expected Graduation 2018

**University of the Fraser Valley – Abbotsford Sept 2012 – Dec 2014**

* Completed 2 years within the Engineering Transfer Program

**Interests**

* Competitive PC gaming (Counterstrike)
* Developing VR games in Unity3D
* Avid hiker and backpacker
* Playing and writing music on the piano
* Producing music in FLStudios
* Competing in Hackathons