StevenHall
Computer Engineering

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Languages
Assembly (68k and 8052)
Bash Script
C/ C++
HTML/ CSS/ JavaScript
mySQL
Python

Computers and Progams
Computer Repair
Git
Linux (Ubuntu)
Microsoft Windows
Microsoft/ Libre Office

Electronics
Microcontrollers
Soldering

Technical Work Experience

May 2016– August 2016 **UBC** Big Data Research   Vancouver, BC

- Goal: To share memory (RDDs) across Apache Spark instances through a unified memory manager.

January 2015– August 2015 **Ericsson** Software Developer Co-op   Burnaby, BC

- Tested and developed quality of service and policy based routing software solutions on a variety of Ericsson's routing platforms using a combination of manual router configurations and scripts for testing.
- Presented demos showing the functionality and progress of policy based routing during the testing and development phases.

Technical Projects

November 2017
                    Web Application Online Store

- Built a web application that mimicks an online store using AJAX requests and mongoDB

April 2017 **Capstone** IoT Based Livestock Bio-Signal Monitoring and Management System

- Construct cattle eartags that comply with Canadian Cattle Identification Agency (CCIA) standards which track vital information such as heart rate, body temperature, and rumination patterns.
- The information is stored on the tag until the time comes for the data to be transferred wirelessly through a mesh network of cattle to a gateway for further processing. The data is then displayed in a web application for the end users.
- This is designed to identify sick animals early to keep medical costs low and prevent more livestock from getting sick.

April 2014 **Electromagnetically Tethered Robot**

- Constructed a robot using one sold piece of aluminum resulting in usable parts that we used for the remote and robot.
- Designed, built, and programmed an autonomous robot that follows an electromagnetic signal produced by a solenoid on a remote that our group also built, resulting in a high grade. The remote sends binary data through the magnetic field that tell the robot to spin 180 degrees, move back, move forward, and parallel park.

Other Work Experience

July 2014–
August 2014   **ByteCom Computer Services** Computer Repair Technician   Surrey, BC

- Fixed broken, slow, and non-responsive computers in a computer repair shop by replicating the customer's problem, identifying the cause of the problem, and fixing the problem with the tools we had, resulting in satisfied customers.
- Techniques used to fix the computers include antivirus programs, file and registry manipulations, and taking the computers apart to diagnose hardware problems, resulting in faster, and better working computers.

July 2013–
August 2013   **Self Employed** Landscaping/ Labour   Surrey, BC

- Broke stucco off the rear exterior wall of a house, fixed rotten parts of a leaking wall, and reapplied tar paper, as well as paved a pathway, resulting in a fixed wall, which could now be covered again with another material.
- Learned to use new power tools quickly in order to complete the job, including angle grinders and table saws, resulting in faster labour, and more experience with various tools.

Volunteer Experience

April 2010–
June 2013   **North Delta Baseball Association and Surrey Canadian Baseball Association**
Assistant Coach   North Delta, BC and Surrey, BC

- Worked with a group of coaches to coach a range of age groups over the three season period.
- Duties include teaching how to play baseball by teaching proper throwing, catching, fielding, and hitting mechanics, resulting in increased performance by every player.

Education

2013–Present   **University of British Columbia**   Vancouver, BC
Bachelors of Applied Science in Computer Engineering (Software Option)

2012–2013   **Kwantlen Polytechnic University**   Surrey, BC
Engineering Certificate

Interests

Programming, Computers
Skiing, Snowboarding
Baseball, Hockey, Lacrosse
Guitar