Steven Hall
Software Engineering

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

Computers and Programs
Computer Repair
Git
Linux (Ubuntu)
Microsoft Windows
Vim

Electronics
Microcontrollers
Soldering

Technical Work Experience

May 2016–Aug 2016

UBC Big Data Research — Vancouver, BC

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

Jan 2015–
Aug 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

Nov 2017 — **Web Application** Online Store

- Built a web application that mimics 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 solid 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

Summer 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.

Volunteer Experience

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

- Coached range of age groups over a three season period.
- Duties include teaching proper throwing and hitting mechanics, resulting in increased performance by every player.

Education

2013–2017 **University of British Columbia**   Vancouver, BC
Bachelor of Applied Science in Computer Engineering (Software Option)

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

Interests and Activities

Programming, Computers
Skiing, Snowboarding
Baseball, Hockey, Lacrosse