StevenHall

Software Engineer

Contact

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Languages

Assembly (68k and 8052)
Bash Script
C/ C++
HTML/ CSS
JavaScript/ AJAX/ JQuery
MySQL/ PostgreSQL
Python
PHP

Computers and Programs

Computer Repair
Git/ SVN
Linux (CLI proficient)
Microsoft Windows
Vim

Technical Work Experience

LinuxMagic Inc/
Wizard Tower TechnoServices Ltd. Full Stack Web Developer *April 2018–Present*

- Worked mostly on MagicMail (a carrier grade email platform for ISPs, Telcos etc) including our webmail platforms and administrative interface.
- Also worked on various internal tools such as our CRM and sales system.
- Completed work orders for customers such as Steve Nash Fitness World and Métis Nation British Columbia which included communicating directly with customers and developing enhancements to existing resources as well new solutions.
- Mentored new Web Developer Hires.

UBC Big Data Research Assistant *May 2016–Aug 2016*

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

Ericsson Canada Inc Software Developer Co-op *Jan 2015–Aug 2015*

- Tested and developed quality of service and policy-based routing software solutions on a variety of Ericsson's enterprise scale 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

Web Application Online Store *Nov 2017*

- Built a web application that mimics an online store using AJAX requests and MongoDB.

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

- 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.

Electromagnetically Tethered Robot *April 2014*

- 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.

Education

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

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

Interests and Activities

- Programming and computers
- Contributing to open source projects such as:
  - Gravity programming language
  - Git Radar
  - Various Vim plugins
- Encryption
- Cryptocurrencies and blockchain
- Computer and information security
- Network security including router configuration and VPNs.
- Configuring my Vim text editor so that it now has over 175,000 lines of additional configuration code and plugins which increases my productivity when coding and editing text.
- I perform all of my own car repairs and maintenance including:
  - Repairing the starter motor
  - Replacing a leaking radiator
  - Performing brake changes
  - Diagnosing and repairing emissions controls systems (IAC and EVAP emission control)
  - Replacing a door
  - fluid changes
- Created a script to solve a problem a relative had when inputting date block requests to their corporate computer program. My program worked so well that all the other employees in that department asked to use my program to streamline their date block requests as well.
- Skiing, Snowboarding
- Baseball, Hockey, Lacrosse