

Scott Carmichael
scott@[censored]

#1 [censored] SW
+1 587.[censored]

Technical Knowledge

Programming Languages/APIs: Qt, ObjC, C/C++, Java, Python, PHP, Perl, Visual C++, SQL, BASH
Shell Scripting

Operating Systems: Windows, Linux (Gentoo, Ubuntu, CentOS), OSX, Android, iOS.

Tools: Qt Creator, GCC/G++, Clang, Android Studio, Xcode, Eclipse, Visual Studio, etc.

Other Experience: Systems Administration, VMware and VirtualBox, Samba, Apache, Tomcat, Sendmail, Procmail, IMAP, IP routing, Wireless Networking, LDAP/AD authentication, Proxies, OpenVPN, RAID, HTML, XML, AJAX, et al

Education

University of Calgary, Calgary AB (May 2003)

BSc, Computer Science

- Completed my degree with a concentration on courses surrounding algorithm design, computability, and software development along with a full-year research project studying Quantum Coin Flipping protocols and Quantum Computing in general.

Experience

iConnectivity, Calgary AB (August 2014 – Present)

Software Developer

- Sole developer of customer-facing Qt/C++ application to support configuration of iConnectivity hardware and digital audio mixing in new iConnectivity hardware products launching this year.
- Responsible for C++ library development for MIDI communication between PC, MAC, and iOS devices and iConnectivity hardware through USB MIDI interfaces.

Rock Solid, Calgary AB (June 2014 – July 2014)

General Consultant

- Consulting relating to the migration of a University Research Software project into a Commercial Software product.

4iiii Innovation, Calgary AB (September 2011 – November 2013)

Senior Systems Architect

- Developed two iOS applications available in the iTunes App Store relating to Running and Cycling workouts which communicate with fitness devices via Bluetooth LE.
- Developed semi-automated manufacturing test for Sportiiiis hardware using Qt, USB-HID and Visual C++.
- Responsible for administration and development of User Registration system, database tracking of users using our hardware in the field, firmware updates & delivery, etc.
- Co-developed bootstrap/update system for upgrading firmware on Viiiiva heart rate monitors over Bluetooth technology from an iPhone.
- Developed Android application using Android and ANT+ APIs to communicate and control ANT+ devices wirelessly.
- Responsible for continuing development of Windows/OSX application for the configuration of existing Sportiiiis product.
- Assisted development in C of firmware for MSP430 embedded MCUs.

SMART Technologies, Calgary AB (October 2010 – September 2011)

System Administrator, Scalable Infrastructure

- Developed automated VM build and deployment process for large scalable Java/Tomcat web application.
- Built automatic testing and reporting framework for user registration.

- Developed and implemented automated load testing and server health monitoring using tools such as JMeter, Ganglia, Selenium, etc.
- Was Linux guru for product development department.

Pason Systems, Calgary AB (January 2004 – October 2010)

Systems Analyst

- Responsible for the requirements gathering, design, development, maintenance and testing of a web-based application using Python and MySQL that tracks equipment, support calls, drilling rigs, rental proceeds, etc.
- Performed server setup and maintenance for Linux (Redhat, CentOS) servers related to our web application and interfaces, along with all applications/daemons used (Apache, MySQL, Python, etc).
- Maintained scripts that ensure our customers are billed for our products and that billing and asset data is synchronized across systems.
- Revamped our team's interviewing process, concentrating on hiring employees who are skilled in the arts of algorithmic and code design.
- Developed a network-enabled GPS application to track trucks and oil rigs across Western Canada. Later extended the tracking application to manage field support calls and response times.
- Developed a software update application to remotely deploy new versions of software to clients as well as synchronize and backup field technician documents.
- Developed an application to ensure smooth 1 click installations and updates of Pason software application suites to customers with varying hardware and systems requirements.
- Ported legacy MFC/C++ applications to new C# infrastructure as part of a new workstation initiative to reduce maintenance costs and field technician support calls to oil rigs.
- Developed a J2EE/Struts application to correlate oil rig location and customer-based rulesets to selectively distribute software updates.

jobe.ca, Calgary AB (July 2001 – Present)

Linux Administrator

- Administrate Linux-based dns, web, shell, mail and other services for 25+ users, 20+ domains.

ohsnap365 Project, Calgary AB (March 2010 – Present)

Opensource Project Administrator

- Started a new website/open source project, with the intent of posting daily photos, one per day, in a social-network like way.
- Includes mail processor for ease of uploading photos via smart phones.
- Android application launched in 2014 allowing users to browse, comment on, take and upload photos in-app and post directly from the app.

Volunteering

- 2001 – 2013 Calgary Youth Science Fair (Judge)
- 2003 Canada-Wide Science Fair (Judge)

Other Interests and Activities

- Ultramarathons
- Triathlon
- Swimming
- Scuba Diving
- Ultimate Frisbee
- Skiing
- Snowboarding
- Mountain Biking
- Traveling
- Reading