

Summary of qualifications

Programming Languages

- Extensive experience developing and deploying software in C++, C, Bash, Java, and PHP.
- Competent in Python, Perl, Visual Basic, Scheme, and Borland Delphi.

Platforms and Technologies

- Extensive experience developing GUIs with Qt, Java Swing, and Java SWT.
- Extensive experience with configuration management and build tools such as CVS, Subversion, and GNU Make.
- Experience using and analyzing network protocols, including TCP/IP, TCP/UDP, Ethernet, 802.11b, HTTP, and XML-RPC.
- Experience installing and administering Linux servers, including Red Hat Enterprise, Debian, Ubuntu, and Gentoo distributions.
- Competent in SQL development under MySQL, PostgreSQL, and Oracle.
- Competent with XML technologies including SAX and DOM.

Leadership and Project Management Experience

- Experienced leading small groups of software engineers.
- Experience gathering requirements, writing project plans, software design, and test.

Work experience

October 2004 – Present

Applied Signal Technology

Software Engineer

- Developed GUIs with Qt under Windows and Linux for near real-time monitoring of large systems of signal processing equipment.
- Responsible for the graphical and usability design of many GUIs.
- Developed custom Qt widgets for high-speed graphical displays.
- Developed software in C and C++ for Linux on x86 and embedded platforms including Xilinx μ Blaze, Altera Nios-II, and PowerPC-405,
- Created a custom embedded Linux distribution using Busybox and Buildroot, including a Linux device driver to support Xilinx FPGAs.
- Used the C++ STL and developed custom template classes.
- Led teams of 2 to 3 software engineers.

June 2003 – October 2004

Lockheed Martin

Technical Lead

- Led team of 3-5 software engineers to develop a biometric software system.
- Served as customer's technical point of contact, and met with customer regularly.
- Received Lockheed Martin SPOT award for helping mend customer relationship.

Software Engineer

- Developed a distributed mobile agent framework in Java.
- Wrote Java Swing GUI for controlling agents on remote hosts using RMI.

May 2002 – June 2003

Brigham Young University

Systems Programmer and Administrator

- Developed PHP, Perl, and Bash scripts to automate maintenance of 200+ Linux workstations and servers running Red Hat Linux.
- Developed PHP web applications for user management via LDAP.
- Maintained OpenLDAP server with 5,400 users.
- Responsible for 24-hour operation of 6 RedHat Linux servers and 200+ RedHat

- Linux and Windows 2000 workstations for student and faculty use.
- Maintained services providing NFS, Samba, DNS, DHCP, LDAP, and SQL.
- Created a PHP/MySQL monitoring system to log millions of HTTP requests daily.

Aug 2001 – July 2002

Novell

Software Quality Intern

- Tested Novell LDAP utilities and validated eDirectory on RedHat Linux.
- Provided first impression of product quality to developers and management.
- Wrote documentation to speed training of future testers.

Education

1997 - 2003

Brigham Young University

Provo, Utah

B.S. Computer Science

- GPA: 3.9 (Computer Science), 3.7 (Cumulative)

**Volunteer
experience**

March 2002 – March 2005

Lead Developer, phpLDAPadmin

- Wrote LDAP server administration software in PHP during free time.
- Grew project to 99th percentile of popularity on SourceForge.net.
- Managed bugs and feature requests from thousands of users.
- Led the technical efforts of other volunteer developers.
- Created i18n infrastructure for translation into 11 languages using UTF-8 encoding.

March 2002 – April 2003

Web Team Lead, BYU Unix Users Group

- Created dynamic web site with PHP and MySQL on Debian and Red Hat Linux.
- Coordinated efforts of 3 volunteer web developers.
- Gave technical presentations on Linux technologies.

May 1998 – May 2000

Missionary, Church of Jesus Christ of Latter-day Saints

- Spent 2 years in Western Venezuela doing cold call visits in the Spanish language.
- Trained other missionaries.

Languages

- Fluent in written and spoken Spanish.

Security clearance

- Active TS clearance with SSBI.

Awards received

- Eagle Scout
- Member National Honors Society
- Dean's List at the BYU College of Physical and Mathematical Science