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General Development Areas

System Programming	Application Programming	Programming Tools
System Administration	Embedded Systems	Software QA
Technical Documentation	Hardware Test Engineering	Scripting
Database Programming	Open Source Technologies	Customer Support

Systems/Languages/Protocols/Utilities

Linux, Unix, AWS, VxWorks, Windows (XP, NT, 7, 10), RT/11, RSX/11M
perl (Win32::OLE, Win32::ODBC, DBI, CGI, LWP, LDAP, XPath, HTML::TreeBuilder, VM::EC2)
shell, ruby, C/C++, Oracle PL/SQL, mysql, SQLite, Postgresql, TCL/TK, Javascript, jQuery, CSS, Powershell,
Assembly Language for various processors
make, sed, awk, lex, yacc, m4, git, github, cron, jira, Perforce, MS Office, P3e
HTML, XML, JSON, TCP/IP, SMTP, FTP, MIME, HTTP, NFS, NNTP, NIS, AD, wireshark, DOT (graphviz), L^AT_EX

Employment History

Sep 2016 – Oct 2017 **Software Engineer** **Kwikee† – Peoria Ill.‡**
Wrote automation scripts, in perl, replacing manual image conversion processes. Provided bugfixes for existing code.

Dec 2015 – Present (concurrent) **Independent Consultant** **Port Orchard**
Providing IT support for local attorneys; current projects include setup of Wordpress blog, website maintenance, document preparation and typesetting

Sep 2015 – Dec 2015 **Software Engineer** **Wells Fargo† – N.C.‡**
Wrote powershell scripts to automate outlook email and putty terminal creation.

Sep 2014 – Aug 2015 **Software Engineer** **F5 – Seattle**
Modified perl/cgi web pages: decreased load times, moved some functionality (sorting searching etc) to client making use of sundry jQuery libraries. Wrote tools to ease use of somewhat cumbersome utilities, automate AWS-related tasks for VM reporting and cleanup. Fixed bugs, made feature enhancements.

Dec 2013 – Jun 2014 **Build Engineer** **Revolution Analytics† – Seattle**
Created reporting website for tracking of Jenkins builds. Wrote package blacklist-er script in ruby utilizing SQLite that examines package dependencies by scraping the CRAN website, and producing a list of packages unsuitable for commercial use, based on the license under which a given package is published. Wrote package converter in python that converts CRAN packages to RPM to be used by Terradata PUT utility for package installation.

Feb 2013 – Sep 2013 **DevOps/Build Engineer** **Disney† – Seattle**
Wrote build scripts in perl to automate the production of static html pages from Visual Studio sources. Migrated perforce projects for United Messaging to git to build under Jenkins. Had to work around a corruption in the perforce database but was able to salvage history past the point of corruption.

Sep 2009 – Feb 2013 **Build/QA Engineer** **Amazon – Seattle**
Responsible for builds and deployments, for Amazon's FBA suite of services composed of some 174 discreet services as well as the automation of outbound services tests. Wrote numerous database driven perl-cgi pages querying various Amazon systems utilizing multiple mechanisms (RESTful/XML, db, cli) to:

- Create nightly build requests, monitor and report build progress
- Track outstanding changes in FBA packages in perforce
- Monitor deployments to provide developers a summary snapshot status of changes of interest
- Interrogate build system for package information, used as a starting point for code coverage examination
- Drive test data generation data structure creation to simulate the creation of orders, querying catalog for product attributes
- Submit fake inventory for test purposes

May 2009 – Aug 2009 **Customer Support** **Plainblack – Madison Wis.‡**
Provided technical support for WebGUI, an open source Application Framework, as well as system administration tasks, remotely, in a Linux environment

† - Contract (agency)

‡ - Remote

Jul 2008 – Dec 2008 **Perl Developer** **Courttrax - Bellevue**
 Designed, developed and implemented database backend for courttrax.com's data feeds from the Alaskan state court system for web presentation. Also wrote application to scrape Washington State BAR Association website and populate an internal database used in Courttrax's court data aggregation service.
 Set up monitors to alert staff to revision changes on PACER web site. Responsible for bug fixes of code that 'broke' due to changes in external websites.

Mar 2008 – Jun 2008 **QA Automation Engineer** **Attachmate† – Seattle**
 Wrote tests for Attachmates's RSIT for Unix ssh client and server.

May 2006 – Mar 2008 **QA Test Automation Engineer** **Isilon Systems - Seattle**
 Responsible for the development of automated test written in perl for the test of Isilon's OneFs file/operating system. The tests covered things such as file timestamps, permissions, ownership, and filesystem events, network isolation between the 'backend' NIC with respect to the 'frontend' (wrote a perl wrapper for tcpdump as nmap was not available on the platform under test).
 Converted DOT program output, meant to display state bubbles, into perl data structures representing hierarchy of the decision logic for buffered-writes and then analyze these relationships to determine if the correct decision paths were being taken.

Nov 2005 – May 2006 **Build Engineer** **Pixelworks† – Seattle**
 Responsible for the creation of makefiles, shell/perl scripts for the production of CDs, in a Linux environment.

Aug 2005 – Jan 2006 **Perl Programmer** **Fred Hutchinson CRC† – Seattle**
 Designed perl script to determine changes made in PeopleSoft personnel database and propagate those changes to AD to enable single-source, Enterprise wide control of Contacts in the Address Book and mailboxes in Exchange as well as the various unix systems

Oct 2004 – Jul 2005 **SDET/Builder** **Microsoft† – Redmond**
 Wrote perl modules for the build framework to be used to build Microsoft's Live Meeting Communicator.
 Converted batch files for the regression testing of Microsoft's Security Configuration Wizard to jobs to run under WTT, Microsoft's Windows Test Technology infrastructure; this entailed developing perl scripts to add and schedule jobs in WTT

Nov 2003 – Oct 2004 **Partner Support** **Qpass - Seattle**
 Responsible for the support of wireless carriers with respect to software updates and new merchant product integration
 Wrote Win32::ODBC scripts to extract merchant data to provide to wireless carriers for maintenance and reporting purposes

Dec 2002 – Nov 2003 **Customer Support** **Microsoft† – Issaquah**
 Provided Technical support for Microsoft's Services for Unix product that incorporated:

- writing working code samples to demonstrate usage of various SFU APIs
- research, documentation and working code sample generation to provide solutions to customers' interface issues between Windows and Unix (issues that required mapping a given Unix process to Windows)
- troubleshooting customer issues, including network trace analysis of NFS/SMB traffic.

The customers I supported were developers, system and network administrators that had in-depth understanding of systems they managed.
 The major components in SFU, a POSIX subsystem that sits at the same level as the Win32 API, include Server for NFS, User Name Mapping, Client for NFS, Gateway for NFS and Server for NIS.

Jul 2000 – Aug 2002 **System Programmer** **Boeing† – Renton**
 Wrote perl (DBI) and PL/SQL scripts to extract data from the various Boeing databases to load Primavera Project Planner (P3e) tables
 Developed shell and perl scripts under HP/UX to process periodic feeds from legacy systems
 Developed client/server utility under Win32 to perform remote table loading across Win2000 and Unix platforms.
 Developed Web scraping script, using LWP, to extract manufacturing data where no plain text feed was available.

Mar 2000 – Jul 2000 **Perl Programmer** **ATL† – Bothell**
 Wrote perl scripts to extract function information from C sources to be written as XML for use by an Ultra Sound Controller state machine

Oct 1999 – Jan 2000 **QA Lead** **Real Networks† – Seattle**
 Wrote various utilities in perl and shell to reduce the manual intervention in the software build/release process
 Wrote test cases for, and bug entries against Real Networks Broadcasting Network Product.

† - Contract (agency)

Jan 1988 – Jun 1988

Firmware Engineer

Qume - Milpitas Ca.

As a part of a seven member team, developed firmware for a ASCII terminal product.

Wrote utilities to ease pain of system management on HP 64000 emulator system.

Designed and implemented keyboard driver.

Developed suite of HP 640000 assembly macros to generate scan code tables easily.

Oct 1981 – Jan 1988

Associate Test Engineer

Perkin Elmer – Hayward Ca.

Provided general trouble shooting support and system management of PDP/11s, under RSX11, in the manufacturing area.

Wrote assembly language diagnostics for an embedded 68000 processor controller.

Designed and developed in-circuit ATE test programs for various digital and analog boards.

Designed and developed stand-alone assembly programs for the test and integration of UNIBUS device controllers.

Developed data acquisition and analysis software to drive GP-IB based spectrum analyzers. These programs greatly eased mechanical and electrical engineer's job in characterizing MEBES III and AEBEL 150 Electron Beam Lithography machines.

As the principal software designer of a two member team, developed and implemented the test strategy for the test of an Electron Beam Lithography data path. The software, written FORTRAN 77, used the host machine to drive the system under test and a logic analyzer for capturing expected output. This resulted in:

- up to an 80% reduction in test time
- a unified test approach across test departments
- the elimination of custom hardware (a one time savings of \$150K).

After implementation, trained test personnel, produced extensive on-line help screens and wrote demo programs.