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## Summary

Senior Java, Perl and WWW developer with strong Oracle and Unix SA experience

## Programming languages, software tools, operating systems and hardware

ActionScript, C, C++, FORTRAN, Java, JavaScript, LISP, Perl, SQL, tcl

Ant, Apache httpd, Apache Jserv, AWK, Axis, Bash, Castor, CGI, ColdFusion, Cron, Csh, Curses, Curseperl, CVS, DBD, Dbm, DBI, DNS, Eclipse, EJB, Emacs, Excite for Web Servers, Expect, Flash, Hibernate, ht://Dig, HTML, httpd, Hypermail, J2EE, JBoss, Tomcat, JDBC, JDOM, JNDI, JSSE, JSP, Log4J, Merit RADIUS, Middlegen, Mod_jk, Mod_jserv, Mod_perl, Mod_securid, Mod_ssl, Netcool, Netscape caching proxy server, NFS, NIS, NTP, ODBC, OpenSSL, Oracle, PostgreSQL, PPP, RCS, RMI, Samba, SLIP, SOAP, SSLeay/OpenSSL, Squid, Ssh, Struts, Sudo, SysV IPC, Tapestry, Tcl/Tk, TEX, Jakarta Velocity, UUCP, Weblogic Server, Web services, X, XDoclet, XML

FreeBSD, HP-UX, Linux, MIPS RiscOS, Unixware, SGI Irix
Numerous Sun workstation and server models. SunOS 4.1.X, Solaris 2.X.
SGI Indy, Indigo2, Challenge, Onyx, O2, Origin 200. Irix 5.X, 6.X.
MS-DOS, OS/2, VAX/VMS

Central Data SCSI terminal servers (CD-1600, CD-3000), FPS AP120B, Mercury i860 floating point accelerator board,

## Experience

**June 2000-Present**: Employed by Qwest Communications as Lead Software Development Engineer.
Research, develop proof-of-concept examples and write code leading up to the migration of a mixture of Java web applications, stand-alone Java applications, and scripts into a J2EE application server (Weblogic Server 9.2). Rewriting the stand-alone Java applications and scripts as EJBs activated by the J2EE 1.4 timer service greatly streamlined the configuration and deployment of all applications which it was then possible to fully automate, eliminating the previous poorly understood and poorly documented manual processes.
Code changes to migrate BEA Weblogic Server J2EE application from one web service this application is a client of to a compatible web service.
Develop, maintain and provide debugging and troubleshooting support for J2EE applications on Jakarta Tomcat and BEA Weblogic platforms using EJBs, JSP, Tapestry, Struts, Velocity and Hibernate. Access web services and TIBCO bus services using Apache Axis, JDOM, Castor, BEA WLS clientgen.
Train and mentor new developers and SAs. Conduct JSP training sessions for co-workers. Team Ant and CVS guru.
Attend 2004, 2007 “No Fluff, Just Stuff” Java seminar. 3 day Spring Framework training 2007.
Implement Flash application bug fixes and updates for Qwest IP Network Statistics web site (http://stat.qwest.net/).
Take Macromedia Flash Training 'Fast Track to Macromedia Flash MX' and 'Design Techniques with Macromedia Flash MX' (total 5 days).
Research, develop classes for, debug and document large EJB application 'Universal DNS' using JBoss, Jakarta Tomcat and PostgreSQL. Some areas of special focus include Struts and

JSP web-based user interface, SSL, servlet interface, database persistence, RCS persistence, database replication, deployment.
Take 5 day Sun Java class SL-351 Enterprise JavaBeans Programming.
Perform functional and performance testing of Merit RADIUS cluster. Develop test software in FreeBSD environment in tcl and C. Write test procedures.
Webmaster/DBA for IP Engineering intranet server. Port old intranet server from Microsoft NT/IIS/MS-SQL to Solaris 8/Apache/Oracle. Port ColdFusion applications. Write web-based Overutilization application in Perl using DBI, mod_perl.
Write ad hoc perl scripts on demand, mostly database ingest or database migration.

**July 1999-June 2000**: Employed by Space Imaging as Software Engineer.
Develop and maintain Perl, Java, C and Oracle applications. Webmaster/DBA for software engineering group intranet server. Implement project tracking database-backed web site in JSP with ApacheJServ, GNUJSP, JDBC, Oracle. Write ISO9000 compliant documentation using LaTeX, MSWord. Served as temporary (3 months) replacement for Oracle DBA who resigned. Troubleshoot HP-UX Oracle instances, install Oracle C/C++ precompiler tools customized for gcc/g++. Write Perl script to automate FTP transfers. DOD Secret clearance.

**March 1998-June 1999**: Employed by Space Imaging as Unix System Administrator.
Deploy secure WWW and NNTP server based on Red Hat Linux 5.2, Red Hat Secure Web Server 2.0, PostgreSQL, INN, SSLWrap. Write Perl user and hosts database management application with CGI web based interface. Synchronize Unix hosts to external time servers with NTP. Set up mail server for Unix users with Sendmail, IMAP, Procmail. Set up and administer mailing lists. Create searchable archives for selected mailing lists with MHonArc, Excite for Web Servers. Deploy Squid Internet Object Cache (caching proxy server). Establish and enforce security policy with password expiration, periodic testing of passwords with Crack. Administer Firewall-1 firewall. Administer Storage Tek hierarchical storage management array using Veritas HSM software. Take 5 day Sun Java class SL-285, Java Programming Workshop.

**October 1997-March 1998**: Employed by Tsunami Consulting group on contract assignment with Space Imaging as SGI and HP Unix System Administrator.
Install and troubleshoot SCSI hardware. Administer Oracle 7.3 server. Implement hot backup strategy for Oracle database. Deploy NIS/automounter solution with menu-driven Curses/Perl administration tool, RCS version control for NIS maps. Implement SQL hosts database with CGI interface (PostgreSQL, Perl, CGI module, DBI module). Troubleshoot EMASS mass storage archive. Deploy SAMBA for Microsoft client access to Unix file systems. Deploy sudo for controlled access to root privileges.

**May 1995-August 1997**: Employed by Analysts International Corporation (AIC) on contract assignment with Lucent Technologies as Unix System Administrator.
Respond to trouble calls for SunOS, Solaris, Unixware and SGI Irix customers. Troubleshoot and fix problems with NIS and NFS, Netscape client and server software, UUCP, serial communications. Install and administer free software, notably Perl 5.003 with selected Perl modules and GNU Emacs across 4 platforms (SunOS, Solaris, SGI, Unixware). Write sysadmin scripts in Perl, Perl/Tk, ksh, awk, Tcl/Tk and expect. Administer secure remote access server providing 80 lines of 28.8 KBPS modem access featuring SLIP and PPP. Write on-line documentation pages in HTML. Conduct training session for Unix admin team and help desk agents on Unixware environment; NFS, the automounter and NIS. Repair (PC) hardware of Unixware servers. Set up and run MOO for sysadmins (see “Collaborative Networked Communication: MUDs as Systems Tools” at http://www.ccs.neu.edu/home/remy/documents/cncmast.html).

Webmaster. Evaluate, install and administer WWW client, server and search engine software. Configure and install Netscape helper apps such as acroread (for Adobe Acrobat PDF format), xanim, xplay, xv, etc. Develop CGI and Java web-based applications.

**February-April 1995**: Employed by AIC on contract assignment with US West MIS as Sun and Mac technician and Sun system administrator.
Configure and install Sun workstations and servers and Apple Macs. Install Sun SCSI devices, memory, graphics cards, FDDI (fiber optic) cards, etc. Provide help desk service in complex networked environment with over 1000 users. Administer network printers. Administer server for Netscape www browser. Troubleshoot Isofax fax application. Customer contact for US West Mineral megacenter move. Interview customers, convey customer requirements to sysadmin team. Port customer data (Wingz spreadsheet, FrameMaker desktop publishing application) to formats in use at the new site (Rapport).

**May 1993-November 1994**: Employed by AIC on contract assignment with US West.
Maintained and developed Korn shell and Perl scripts used to install large telecommunications application. Developed menu-driven Curseperl system administration tool. Took 20-hour SGI system administration class. Administered SGI Challenge development system.

**May 1991-July 1992**: Programmer for Geotrace Technologies.
Ported large VMS FORTRAN geophysical application to SunOS FORTRAN and C. Write interactive program to display geophysical data using INT Seismic Widgets (X11 Motif) function library. Ported FPS array processor code to Mercury i860 floating point accelerator board. Tuned floating point software for performance. Administered network of Sun SPARC workstations. Installed modem, configured UUCP and Unix email, installed Usenet news.

**October 1990-January 1991**: Software Engineer for Aviation Intelligence.
Developed and maintained modules in commercial flight and crew scheduling program in C, C++ and Prolog. Worked on Presentation Manager user interface. Installed GNU Awk on the OS/2 development system and wrote AWK script to transform C source code to C++.

**May 1989-January 1990**: Employed by Information Systems Consulting on contract assignment with Electrospace, Inc.
Coded C modules for real-time multitasking telephone automated switching system for the US Army. Wrote test plans, automated test procedures and documentation. Trained other members of the team in the use of Unix MAKE which I installed on the VAX/VMS development system.

**July-September 1988**: Employed as a contract programmer by Structured Software Solutions, Inc.
Implemented IBM 3270 workalike user interface using SVR3 curses and C.

**June 1985-August 1987**: Artificial intelligence engineer for McIntosh Computer Systems.
Developed expert system to size and select gas regulators in Common Lisp on an HP-9000 workstation running HP-UX. Developed prototype pipeline construction expert system using KEE on TI Explorer Lisp Machine. Responsible for 2D graphics module of cable TV networks CAD program. Performed system administrator functions.

**January 1982-December 1983**: Applications programmer for General Electric.
Coded FORTRAN and assembler modules for FPS AP-120B array processor and VAX/VMS. Responsible for digital signal processing component of RADAR application for US Air Force. Taught in-plant courses on LISP and Ada programming languages. Wrote wire-frame 3D graphics demo in Ada. Held SECRET clearance.

# Education

1990 MA in Linguistics from University of Texas at Arlington. For my thesis I implemented a linguistics application called comparative reconstruction, a rule-based expert system written in Common Lisp on a Sun 3/60 workstation.

1981 BS in Computer and Information Science from Syracuse University.