

Software | DevOps Engineer

Expertise C, Perl, JavaScript, XQuery, XML, Linux code/admin, Shell Scripting, PowerShell, Revision Control scripting with CVS/SVN/Git, MySQL, IaaS: AWS & Rackspace. PHP, Windows, C++, Java, Apache, IIS, Tomcat, eXist-db, XHTML, Fortran, LISP/Scheme, Prolog, Pascal, DB2, Oracle, SQL Server.

2017.09-2019.12 Systems Engineer

Red Rock Technology

Assembled, stood up, installed, integrated and wrote integration scripts and code for multiple systems, including Windows back end servers, Storage Systems Direct, and integrated IP telephony solutions running on the Genesys, Twilio and Jive platforms.

- Cloud Phone System Conversion and Development. Managed and maintained a Genesys phone system, A.K.A. Interactive Intelligence, for multiple call centers, and converted it to Twilio and Jive, to enable push-button scalability, cloud-based management, and increased stability and programmability. Development for Twilio used Azure-based registry configuration and single-sign-on, based on Windows-based accounts. Logging, monitoring and data for settings to be managed by supervisors and administrators via Flex used AWS storage and functionality. Coding primarily done in JavaScript.
- Windows Enterprise Monitoring. Wrote scripts to poll several hundreds of VMs on the local domain, report various metrics and states, and compare against company standards for configuration. Extensions written to modify the VMs automatically, after confirmation of the given cases, to conform to the company standard. Work primarily done in PowerShell, with data stored in SQL Server.
- Hyperconverged infrastructure stand-up, management and monitoring. Assembled and configured S2D (Storage Systems Direct) hardware from scratch, wired, configured and installed systems for optimal performance to support multiple development and QA teams, requiring groups of VMs in mutually inaccessible virtual subnets. Also wrote scripts to automatically create various VMs, and monitor and manage their states. Configured Mellanox managed for optimal S2D performance. Work done in PowerShell and Bash.

2011.07-2015.05 Director of Operations

OpenNotus Solutions LLC

- Lead Operations Engineer, responsible for IaaS setup, using AWS and Rackspace. Responsible for all Linux systems set-up, maintenance, backups and monitoring, as well as eXist monitoring and backups. Managed the company Subversion (SVN) revision control system, created hooks with scripted rules to enforce good development practices, and wrote programmatic extensions to help migrate changes between the branches.
- Software Developer, in charge of insurance eligibility EDI file transfer. Developed data-driven transfer code to create files of multiple varieties, including HIPAA 834 5010/4010 and proprietary fixed width and delimited formats, using XQuery, Java, Korn Shell and an eXist database / Orbeon XHTML/XForms server for the front end interface, working with Tomcat and Apache.
- Hired and trained engineers, and oversaw transition of duties to new personnel upon company purchase by PrismHR.

2007.01-2011.03 Software Systems Engineer

Verizon Business Corp.

Development of Framework and Support Tools for the company's central Order Workflow Management (OWM), and Service Oriented Architecture (SOA). Built web-based tools to track order progress through legacy workflow systems, on Tomcat and Apache, used in testing environments to ensure progress, and, in the production environment, to help in problems analysis. Modification of OWM system code-base to allow reconfiguration with new systems, and support of new order types. Normalized SOA Operations Framework on many machines, and instituted remote change, deploy and synchronization control using CVS & SVN; instituted department migration to SVN. Used C, PHP, Perl, Shell Script, Forte, Java, JavaScript.

1997.03-2006.12 Contractor, Self-Employed

- **ETP Corp., Senior Software Systems Engineer.** Developed functionality for an online sales system using ColdFusion, SQL Server, HTML, JavaScript, C, and more.
- **Actuate Corp., Web Application Developer.** Maintenance web site and preparation of transfer to a new infrastructure. Development of marketing programs enabling sales lead generation.
- **Video4i Inc., Lead Web Application Developer.** Developed a web based application to display streaming video (pre-YouTube). Development in Perl and C, on a Linux platform with a MySQL database. Close work with proprietary streaming video technology engineers and graphic artists.
- **Systems Integration Engineer, Saba Software Inc.** Web based development, NT and UNIX based, using JSP, Perl, CGI & HTML to integrate Saba's EMS with Netscape's intranet and extranet.
- **Cisco Systems, Web & IT Engineer.** Performed Y2K and security rewrite and/or certification of code used on Cisco's main web site. Wrote multiple web-based tools, including a feedback dashboard, and a marketing alerts utility, using Perl, JavaScript and the Oracle database.
- **Firefly LLC, Lead Software Engineer.** Development of an Internet commerce system to sell and track book sales for PeopleSoft. Used C, UNIX, JavaScript, Oracle Web Server and DB with PL/SQL.

M.S. Computer Science, equivalent study, Uppsala University, Sweden.

Thesis: Security Constrained Reactive Optimization using Genetic Algorithms.

B.S. Computer Engineering, University of California, Santa Cruz.

Natural Languages: *English & Swedish*, native schooled ability. *Fluent German*. *Some Spanish*.

Volunteering: Handicapped swimming teacher. Kayaking pool session life guard. BJJ instructor.

Other: Home extended family network managed with a mix of Windows and Linux, with strong disk encryption, incremental backups, and multiple physical mirror sites in multiple states and households. Multiple home-based web sites running on Apache. All built from the ground up.