

Jerry D. Smith II

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Objective

I would like to use my knowledge of Linux, HP-UX, OSX, Solaris, OS deployment, networks, network security, the web, high performance computing, clusters, massively scalable systems, high performance parallel filesystems, system administration, distributed resource management, relational databases, and configuration management, to create world-class systems and applications.

Education

- **Los Lunas High School**
Secondary studies

Los Lunas, NM
Graduation 1994

Work Experience

- **Sandia National Laboratories** Albuquerque, NM
November 2010 – present
Enterprise Linux Architect for Oracle Systems
 - Conduct day-to-day monitoring, operation, troubleshooting, user support, etc. on Oracle Enterprise Platforms.
 - Designed and implemented 42 node D/Q/P/DR solution for E-business Suite on Oracle Enterprise Linux.
 - Designed and implemented repeatable build platform utilizing kickstart and pxe for Enterprise Linux environment .
 - Designed and implemented configuration management solution with Git and Puppet .
 - Designed and Implemented pro-active monitoring, reporting, system base lining using Ganglia and Nagios.
 - Designed and implemented a large suite of tools used to manage the Oracle Enterprise Platforms.
- **Sandia National Laboratories .** Albuquerque, NM
Jan 2003 – Nov 2010
Systems Administrator
 - Architecture, development, and implementation of Linux solutions with emphasis on clusters for high performance and scientific computing.
 - Member of the Thunderbird implementation team: #5 on the top500 list - 8,960 compute node CPUs on SDR InfiniBand.
 - Member of engineering team who designed and implemented the Red Sky supercomputer: #10 on the November 2009 top500 list with 433.5 TFlop/s. 43,008 cores on a 3D torus using QDR InfiniBand.
 - Presented OSX server cluster for Sandia National Laboratories in the ASCI booth at SC2004.
 - Deployed Apache web platform for the Infrastructure Computing Systems Department.
 - Created health-monitoring scripts that page system administrators when Linux cluster problems are detected.
 - Development and presentation of training materials for user and administrator communities
- **Sandia National Laboratories** Albuquerque, NM
Jan 2003 – Nov 2010
Distributed Resource Management Analyst
 - Sandia Technical Lead for Tri-Lab "HPC Common Resource Management".
 - Contributor to RFI/RFP/Selection of Common Resource Management Solution
 - Deployment, development, and administration of Moab Scheduler
 - Deployment, development, and administration of Torque Resource Manager.
 - Deployment, development, and administration of Slurm Resource Manager.
 - Lead development of in house cluster accounting, utilization, and reporting along with accompanying web services to provide these metrics.

Skills

Languages and Programming: Perl, PHP, Ruby, L^AT_EX, Shell, SQL, HTML, git, CVS, SVN, Eclipse, Netbeans.

Operating Systems: Linux (Ubuntu, RedHat, Gentoo, Oracle Enterprise Linux), Solaris, OSX

Clustering/HPC: PBS/Torque, Maui, Slurm, Moab, Myrinet, InfiniBand

Database: MySQL, Oracle, PostgreSQL, SQLite

Web: Apache, Apache C/Perl API, HTML::Mason, mod_perl, CGI, DBI, PHP, Ruby on Rails, Tomcat, JBoss.

Miscellaneous: Excellent troubleshooting and debugging skills, self-motivated, customer focused, and highly organized.

Publications

- Jerry D. Smith II. Tuning For Massive Systems; *Moab-Con*. May 28-30 , 2008, Provo, UT.
- Jerry D. Smith II. Thunderbird Capacity Computing System; *LCI Conference on High Performance Computing* May 3, 2006, Norman, OK.

Other

- Active DOE “Q”-level security clearance.
- Red Hat Certified Engineer RHEL 5; cert #805008184632534, June 27, 2008
- Red Hat Certified Systems Administrator RHEL 6; cert #110-272-069, July 15, 2011