

## **SOL LEDERMAN**

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IT people-oriented professional with over thirty years of broad experience in system administration, DevOps, software design and development, technical support, training, documentation, troubleshooting and customer management. Solid scripting experience in Bash and Perl. Past programming experience in Java, C, BASIC, and Assembler. Strong command line Linux skills. CentOS/Red Hat Enterprise Linux server administration skills. Experience administering Puppet. Knowledgeable about Subversion, Git, and ticket tracking systems. Experience administering MySQL servers. Excellent analysis, oral and written communication, interpersonal, and leadership skills. Results oriented. Customer driven.

### **HISTORY AND HIGHLIGHTS**

#### **Self-employed, 2011 - Present**

##### **Author**

- Published three ebooks related to Linux DevOps and high-performance computing (HPC) for Linux Journal. Two ebooks were sponsored by SUSE, the other by Puppet Labs.
- Published a recreational math article for Linux Journal guiding users to explore command line tools.
- Authored white papers, marketing pieces, journal articles, technical grant proposals, press releases, and numerous blog articles related to distributed search technology

#### **U.S. Dept. of Energy Office of Scientific and Technical Information, 2008 - Present**

##### *Contract Software Engineer*

- Developed Python application to extract keyphrases from full text of technical papers using natural language processing techniques. Effort supported improved categorization of articles.
- Developed Java servlet to dynamically create millions of web pages containing canned results from several search applications. Goal was to increase visibility of these applications to humans and to search engines. Developed schema and process to import query results from human searches into a Solr index. Servlet traffic results in over 20 million transactions per month.
- Developed a web application to create histograms of various types of metrics for different products from a menu-driven UI. Developed initial release in Perl, CGI, HTML, jQuery and gnuplot.
- Developed Perl/CGI-based application and CMS to manage database of 30,000 web-sites of scientists and researchers. Designed and implemented process to crawl those sites to retrieve over 2 million documents with sophisticated handling of duplicate and junk documents.

#### **Deep Web Technologies, 2002 - Present with two hiatuses**

##### *IT Lead, Application Engineer, Past Manager*

- 2016 - Present. Manage an internal cloud of Linux CentOS/Red Hat Enterprise Linux servers virtualized with a mix of KVM and Xen. Maintain system and network security.
- Produce documentation, proposals, blog articles, white papers and other marketing collateral to support business development.

- Support Application Engineering Team. Build, configure, test, deploy and support
- Linux-based distributed search applications.

**Wild About Math!, 2007 - 2014**

*Blogger and Podcast Producer*

- Interviewed over three dozen individuals who are making a difference in math education and/or helping to popularize math in the "Inspired by Math" podcast series. Interviewees included some of the most well-known math popularizers.
- Authored hundreds of blogs articles, including book reviews and contests, to inspire an interest in mathematics.

**Los Alamos National Laboratory, 2003 - 2004**

*Technical Staff Member System Administrator*

- Supported laboratory-wide labor entry system running on a number of Unix computers. Maintained high uptime. Automated a number of regularly scheduled processes.
- Implemented the first-ever offsite backup process for the system's data files.
- Performed software maintenance on production systems. Monitored system security.
- Provided first tier Oracle database support.
- Developed ksh, Perl, and SQL/Plus scripts to monitor system performance and to produce reports.

**Sun Microsystems, 1994 - 2002**

*QA Staff Engineer, Solaris Products and Platforms*

- Developed tools and processes to make the most effective use of testing resources in the Sun Cluster Quality Assurance organization.
- Hired as a staff engineer to lead efforts to automate manual testing, train junior engineers, and develop and implement processes to improve the quality of bugs being filed and the quality of the test execution.

*Software Development Manager, Solaris Products and Platforms*

- Managed a team of six engineers who developed cluster installation tools and test software for the Sun Cluster organization.
- Managed a major development project to port the Sun Cluster Automated Test Environment to break dependencies on our lab environment.

*Tools Engineer, Solaris Products and Platforms*

- Developed command line, web-based tools and data infrastructure to install and configure Sun Cluster 3.0. Delivered training to internal and external customers.
- Developed a powerful yet simple framework and numerous supporting tools that completely eliminated the numerous time consuming and error prone installation and configuration steps.

*Software Developer, SunSoft Sustaining Engineering*

- Designed and implemented software to deliver patches for Solaris Maintenance Releases. Rewrote the legacy tool, improving performance, eliminated the need for a dedicated engineer to maintain it.
- Productized the tool for delivery with Solaris OS installation software.
- Was promoted to senior engineer by Director based on outstanding results.

*Lab Manager, SunSoft Sustaining Engineering*

- Maintained a lab of Sparc- and Intel-based Solaris machines.
- Developed tools to reserve and track use of lab machines and to automate installation.
  
- Greatly reduced the time needed for engineers to be productive.

*Account Ambassador, SunService*

- Provided technical and account management services to Sun's premier customers.
- Earned SunUp award for being among the top 5% of SunService producers and earned employee of the month in February 1995.
- Recognized for ability to handle large and difficult account load.
- Brought under control an account that had complained to Sun's CEO.

**EDUCATION AND ADDITIONAL INFORMATION**

- Attended Stanford University. Completed substantial coursework towards a BS in Mathematics and an MA in Sociology.
- Dale Carnegie Course graduate.
- English teacher in South Korea, 1983-1984.