

# Jon S. Miller

Senior Linux Systems Engineer

<http://jonebird.com/resume/>

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## OBJECTIVE

Seeking employment in a fast paced environment where I can utilize my creativity and experience in the capacity of administration, development and leadership surrounding the Linux platform. Ideally working in a environment which appreciates the value of open-source software and is not encumbered by bureaucracy where I can influence the direction of the company.

## SKILLS AND ACCOLADES

- Published in May 2008 issue of Python Magazine entitled "LDAP backed initScripts in Python".
- Presented at 2008 PyWorks Conference: "Using Python with LDAP". The talk included an introduction to the ldap module for Python and concluded with a demonstration of moving local config data into LDAP and modifying an existing application to pull it's data from LDAP.
- Currently in negotiations to author the next edition of Beginning Python with Wrox publishing.
- Programming experience in Python, Perl, C/C++, Bash/Korn/Bourne shells, awk, sed, Java, Lisp.
- Virtualization experience including VMWare (ESX), z/VM, Xen, KVM.
- Linux Kernel Internals certification of completion from RedHat (RHD236). Personally provided a new lab exercise which is now a part of the curriculum.
- Used Linux since 1995 with 7 years professional experience which includes RedHat Enterprise Linux (RHEL) 2.1, 3, 4, 5 as well as Suse Linux Enterprise Server (SLES) 9, 10.
- Database experience: DB2 7, 8, 9; Oracle 9, 10 including RAC; Sybase ASE 11.X, 12.X. Non-proprietary RDBMS experience includes MySQL, PostgreSQL, sqlite, bdb. Duties have included system configuration, tuning, SQL optimizations, stored procedures, backups / restores, DDL definitions, disaster recovery planning. Programming experience in shell via CLI, C++, Python, Perl, Java, Jython.
- Author and maintainer of the TrackTime application (<http://code.google.com/p/tracktime/>)
- 6 years experience with Solaris 2.6, 2.7, 8, 9; 2 years HP-UX 11i.
- Working operational experience with Microsoft NT, 2000, 2003.
- Networking knowledge TCP/IP, rarp, bootp, tftp, nfs, nis, ldap, nis, snoop, tcpdump, ethereal, 802.1q.
- Ability to work under pressure.
- Excellent written and oral communication skills.

## WORK EXPERIENCE

NATIONWIDE INSURANCE, Columbus OH

*Senior Linux Engineer (12/2006-Present)*

- Manage over a thousand Linux guests in a team of ten comprising of %50 Suse Linux guests running on z/VM, %30 Linux guests running on ESX and the remainder physical HP proliant servers. Maintain the build of our SLES 9, 10 images along with our RHEL 3, 4 and 5 builds. Autoyast and kickstart configs.
- Member of our Linux and Unix concurrency teams which guide the direction of our use of Linux and related technology in the company.
- Wrote inspection scripts, used by middleware support team, for performing reverse engineering of top cpu running processes. Summarized system calls, identified looping processes, process trees and pidfile summaries while gathering data for potential support case.
- Wrote a Linux kernel module which resets signal handlers and updates limits on a process. Module's creation marked the first time, in over a year with a PMR case with IBM, that we were able to acquire a system core for our support case.
- Received "Innovator of the Year" award in 2008 to our team by IBM for our work of running zLinux on the mainframe.
- Mentor co-workers in learning Python and Shell. Provided lessons and encourage further development by creating mini-projects to aid our environment and their development.
- Created a automated data collection system for any and all points of interest with our servers. Included batch system along with web service for retrieving and storing further data points. Written in Python and mainly utilizing the paramiko ssh module, TurboGears web framework and SQLAlchemy ORM.
- Migrated Linux environment from local accounts to LDAP. Led effort which included configuration and scripted consolidation of disparate user and group IDs.
- Solution lead in our Read Only Root (ROR) effort in our zLinux environment. Shared root (/), /usr and /opt filesystems as readonly references of the same DASD disk. Managed resources and coordinated migration of over 500 servers to our new server configuration saving over 1TB of DASD storage and increased security.

- Developed solution to share DB2 binaries, across various fixpack levels, in our zLinux environment.
- Consolidated documentation for team in a single Wiki site while leading the increase of documentation production levels two fold.
- Implemented source code repository solution (SVN) for better management of scripts and configuration data for the team. Deployment included educating and guiding team members in SCM principles.

STERLING COMMERCE, Columbus OH  
*Senior Unix Administrator (6/2000-12/2006)*

- Team lead of Unix team.
- Everyday responsibilities include DNS (bind), LDAP accounts, Veritas Netbackup, user/group maintenance in LDAP and ADS, Veritas Volume Management, Veritas Cluster Server (VCS).
- OS based firewalls include sunscreen, ipfilter, iptables.
- Created multiple custom Veritas Cluster Server (VCS) agents.
- Implemented log monitoring tool utilized company wide across all Unix/Linux servers in Perl which supplemented Unicenter framework in handling Veritas Cluster Server (VCS) clusters.
- Implemented linux-ha.org's Heartbeat in money saving clustered solution along with NFS cross mounted shared file systems.
- Wrote administration utility to abstract application details to administrators and centralized configuration with custom schema in LDAP. Could then control RC scripts centrally for 3<sup>rd</sup> party addon software.
- Maintained CVS server for company. Incorporated viewcvs CGI application, cvsd with ten repositories and synchronizing accounts with LDAP accounts.
- Design highly available customer facing infrastructure for a in-house hosting solution. Involved network load balancers, clustered applications and Oracle RAC for the full 3-tiered application.
- Built out IBM Websphere MQ v3.5 infrastructure for wide company use on Solaris within VCS.
- Designed and implemented modular Solaris Jumpstart infrastructure. Each software component being managed in simple, separate scripts and status of each script maintained across reboots as well as ongoing operations.
- Sun Solaris hardware experience includes netra, 250, 280, 880, 420, 4800, 6800.
- Dell hardware experience with 2450, 2550, 2650, 6850, 2850, 6850, 4850.
- Apache (AJP Connector, modproxy, virtual servers, SSL), Tomcat, JBOSS, BEA Weblogic.
- Implemented in house collaborative blog for team. Promoted documentation and teamwork. Developed custom plugins to assist in common repetitive work such as change management communications.
- BEA Weblogic Server 6.1 certification.
- Administrated Sybase Databases versions ASE 11.9, 12.0, 12.5.
- Developed installation standards for DB2 7.2, 8.1 as well as assisting administration.
- Oracle 10g RAC R1, R2 installations and administration on Solaris and Linux platforms. Developed standardization and automated installation for each of the RDBMS systems. Maintained Oracle RAC cluster of 7 nodes and 500GB of SAN storage on RHEL 3.0 servers.
- Developer in Billing department, coding in C, C++, ksh, and sql against Sybase and Informix databases.
- Developer in commercial facing customer offering. Handled new feature enhancements while supporting C++ application using Sybase Database and ASP web pages.

SYSTEM OPERATIONS CENTER, OSU - Columbus OH  
*Operator, (6/00-12/01)*

- Troubleshooting and configuring departmental hardware and software.
- Backup system monitoring and restoration responsibilities.
- Software development.

LAB CONSULTANT, Columbus OH  
*Unix/Resolve Consultant, (1/00-6/00)*

- Aid students with various questions primarily concerning Resolve C++ and Unix.

## EDUCATION

THE OHIO STATE UNIVERSITY  
 1996 – 2001 B.S. Computer Science - Advanced Studies Option.

Eagle Scout

## REFERENCES

Both personal and professional references are available upon request.