Joseph Reeves

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Professional Experience

Hilton Hotels Corporation — Memphis, TN — *2006-present*

» Lead UNIX Engineer

- ¤ Engineered UNIX based solutions to meet the needs of the enterprise
- ¤ Improved the server build system using custom Perl scripts and makefiles
- ¤ Wrote workflows in XPRESS [Lisp-like language] to automate user management tasks in Sun Identity Manager
- ¤ Wrote Perl scripts to query LDAP attributes and MySQL to update user attributes
- ¤ Worked on the re-architecture of the internal and external DNS
- ¤ Managed Virtual hosts through VMware VirtualCenter
- ¤ Created a project to centralize patch management
- ¤ Implemented a SecurID deployment to make 2-factor authentication the standard for VPN users

Regions Financial Corporation — Memphis, TN / Montgomery, AL — *2003-2006*

» Security Engineer II

- ¤ Responsible for research and development of new Intrusion Detection and Prevention sensors and infrastructure
- ¤ Researched security vulnerabilities and assessed enterprise impact
- ¤ Worked with key personnel to mitigate security weaknesses and strengthen security in all network zones
- ¤ Implemented a centralized logging architecture with Syslog-ng and developed log analysis tools in PHP and Perl
- ¤ Set up a secure SAN for forensics data

Colonial BancGroup — Montgomery, AL — *2001-2003*

» Senior UNIX Administrator

- ¤ Organized the UNIX department
- ¤ Wrote and maintained all documentation for the department, including the Disaster Recovery plan and backup strategy
- ¤ Created a custom hot backup solution for UNIX filesystems and Oracle databases utilizing EMC mirroring technology
- ¤ Maintained support contracts with vendors and upgraded hardware as necessary to dynamically meet demand
- ¤ Improved automation with custom shell scripts
- ¤ Created and maintained a HP UNIX cluster and a Lotus Domino cluster on Solaris
- ¤ Allocated database and filesystem space from EMC storage
- ¤ Achieved the goal of 99.999% uptime

Anteon Corporation — Montgomery, AL — *2000-2001*

» System Administrator

- ¤ Maintained and managed a heterogeneous network of UNIX and NT servers
- ¤ Responsible for the upkeep and support of approximately 30 workstations
- ¤ Created a customized environment for UNIX developers
- ¤ Assisted with management of Oracle databases on multiple platforms

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Education

Auburn University Montgomery 1999-2003

- ¤ Computer Science and Business
- ¤ BS awarded in August of 2003

Spring Hill College 1996-1999

- ¤ Computer Science and Psychology
- ¤ Transfered to AUM to accept a job opportunity

Competency Levels

- AIX
- HPUX
- Solaris
- Linux
- FreeBSD
- MacOS X
- Oracle
- MySQL
- SQL Server
- Apache
- TCP/IP
- LDAP
- SNMP
- Syslog
- Sendmail (SMTP)
- Bind (DNS)
- Lotus Domino
- BEA Tuxedo
- Java
- C
- C++
- PHP
- Perl
- Bash/sh

- ¤ Developed UNIX backup scripts for a robotic tape drive
- ¤ Maintained Oracle database install scripts using Perl
- ¤ Developed Installation packages in InstallScript
- ¤ Responsible for source code management [SCM] and the software build environment

ACT Worldnet — Montgomery, AL — *1999-2000*

» Programmer

- ¤ Completely rewrote the company intranet
- ¤ Wrote commercial web applications for clients
- ¤ Designed and implemented SQL Server databases
- ¤ Worked closely with system administrators, designers, and other programmers to accomplish projects
- ¤ Interacted with clients, giving software demos and training
- ¤ Provided support for Windows and Linux servers as a secondary role

Mentoring

Regions Technology Training — Montgomery, AL — *July 2004*

» Instructor

- ¤ Taught a class entitled: Introduction to Linux and UNIX Administration
- ¤ The class was offered twice and filled all 30 seats each time
- ¤ Created a custom Gentoo Linux based Live CD to use as an instruction tool for hands on learning, which contained a considerable amount of documentation as well as a standard compliment of UNIX tools
- ¤ Students each received their own copy of the CD, which they retained to further their learning

Montgomery Area Linux Users [MALU] — Montgomery, AL — *2001-2005*

» President, Founder

- ¤ Founded in 2001, MALU was created to educate people about Linux and Open Source Software
- ¤ Wrote the original website and several complete rewrites of malu.org in PHP
- ¤ Created the mail listserv with GNU Mailman.
- ¤ Organized the group, arranged the meetings, and created Officers to delegate certain responsibilities.
- ¤ Gave the majority of the technical presentations for the group with topics ranging from Apache performance tuning to building a Linux PVR (Personal Video Recorder).
- ¤ Organized and hosted a statewide Linux conference called Alabama LUG Fest [ALF] in conjunction with all of the other Linux User Groups in the state of Alabama

Alabama LUG Fest 2003 — Montgomery, AL — *January 2003*

» Speaker, Host, Coordinator

- ¤ Created to foster cooperation between the Linux User groups of the state and to fill the void left by the departure of Atlanta Linux Showcase from the Southeast
- ¤ Several prominent speakers gave presentations, including Mark Spencer of Digium and Asterisk fame and Timothy Lord of Slashdot
- ¤ A LUG workshop was held as a brainstorm session between the leaders of each LUG on how to improve and strengthen the respective groups

Certifications

ISC² CISSP #64470
Security certification
April 2007

Linux Professional Institute LPIC-2
LPI Linux certification
Aug. 2003

HP Certified IT Professional
HP UNIX certification
Feb. 2002

Training

HP Education Services

- ¤ HP-UX system and network administration I
- ¤ HP-UX system and network administration II

LinuxWorld Conference 2003

- ¤ Samba Advanced Administration
- ¤ Linux Clustering for the Enterprise
- ¤ Developing Embedded Linux Devices
- ¤ Linux and Digital TV Services
- ¤ zSeries Linux

Sans 2004 (New Orleans)

- ¤ Intrusion Prevention Systems
- ¤ Log Aggregation and Analysis
- ¤ Web Application Security

Open Source Projects

Log Minion

» Lead Developer

- ¤ A log aggregation tool written in Perl
- ¤ Utilizes a threaded algorithm for performance and scalability
- ¤ Natively speaks syslog protocol
- ¤ Supports regular expressions for pre-filtering of events

File Brigand

» Lead Developer

- ¤ A universal pull client for remote files
- ¤ Supports getting files via SSH, FTP, and SMB (Windows File Sharing)
- ¤ Automatic protocol detection determines how to best get the file requested

Cores

» Lead Developer

- ¤ A lightweight, secure blogging system
- ¤ Server side written in PHP
- ¤ Based on simple text files that are uploaded to the server via SSH and automatically parsed