KEN TREADWAY

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Proven cross-platform systems engineer with over 18 years of experience in solving business problems with technical solutions and automation. Team-oriented leader capable of supporting existing processes, incorporating and documenting new technology, and organizing complex projects with limited supervision.

Technology Summary

Systems: Linux (Red Hat Enterprise Linux (RHEL)/CentOS, SUSE Linux Enterprise Server (SLES), Debian/Ubuntu, others); UNIX (AIX, HP-UX & Solaris); Windows (Up to 2012 R2); VMware ESX/ESXi

Languages: Python; multi-platform UNIX shell scripting; Windows CMD/batch scripting; VBScript; Javascript; PowerShell; C#; C and C++; SQL; PHP; Perl; Puppet; Ruby; HTML/CSS

Productivity Software: Microsoft Office (Word, Excel, Outlook, Access, Visio); Subversion and Git version control systems; JetBrains PyCharm, Microsoft Visual Studio, Komodo, and other integrated development environments

Server Software and Technologies: VMware vSphere; QEMU/KVM virtualization (Linux); Ansible and Puppet for configuration management; Active Directory (AD); Apache HTTP server; Django/Flask web frameworks (Python); Postfix email server; DHCP, PXE and TFTP; DNS; NFS; SMB; GlusterFS distributed filesystem; FTP; Windows Management Instrumentation (WMI); HP Server Automation (SA); HP Database and Middleware Automation (DMA)

Databases: Microsoft SQL Server; Oracle (RAC and standalone); MySQL/MariaDB; Postgresql; SQLite

Expertise

- ☐ Systems Engineering
- ☐ Automation/DevOps
- ☐ Software Development
- ☐ Architecture
- ☐ Communication
- ☐ Time Management
- ☐ Documentation
- ☐ Technical Mentoring
- ☐ Leadership
- ☐ Process Development and Improvement
- ☐ Results Oriented
- ☐ Project Management

Experience

Wells Fargo/Wachovia, Winston-Salem, NC   11/2005 - present

Advanced through multiple positions over a decade of service as a lead systems engineer. Accountable for delivery and support of reliable cross-platform automation at a large scale. Responsibilities include: researching, developing and maintaining technical solutions to complex problems utilizing existing or new platforms; creation and maintenance of integrated business and technical processes; writing and maintaining documentation targeting various audiences; collaboration, mentoring and code review to strengthen teams' technical skills; troubleshooting and resolving complex issues in production environments; prioritizing project completion with limited supervision.

Senior Systems Engineer – Database Automation Engineering (9/2015 – present)

Accomplishments:

- Oracle RAC startup/shutdown scripts to enable OS patch automation without DBA engagement
- Developed import/export scripts to consume HP DMA's XML-based web API
- Patch automation for Oracle RAC databases via home clone
- Created scripts to allow unprivileged database administrators to securely execute specific privileged commands for grid infrastructure and database patching and diagnostics

Senior Systems Engineer – Automation Engineering (10/2009 – 9/2015)

Accomplishments:

- Increased efficiency by developing automation workflows for new server builds, software installation, and patching
- Designed and implemented automated server patching framework with built-in unit tests
- Built and maintained toolset to allow engineering team to repeat deployment and audit of workflows via HP Server Automation API
- Created integration testing framework to ensure server builds and software automation function properly

- Delivered cross-platform web service client package for discovery of software licensing entitlement via JSON API

Systems Engineer – Virtualization Engineering (8/2007 – 10/2009)
Accomplishments:
- Created and documented VMware ESX server build image to ensure consistent configuration
- Maintained ownership of VMware ESX patch repository and documentation
- Designed and implemented virtualization reporting application for Fortune 500 company
- Developed web application to allow live self-serve discovery of virtualization infrastructure

Systems Engineer – Active Directory Migration Engineering (11/2005 – 8/2007)
Accomplishments:
- Key member of a high-performance team responsible for migrating Windows NT and Novell servers and workstations into Active Directory with no end-user disruption
- Invented several scripts, utilities and websites in a variety of languages, interfacing with Active Directory, SQL Server and WMI, to facilitate automated workstation migrations

Dana Corporation, Statesville, NC   9/2005 – 11/2005
Systems Administrator
- Microsoft Active Directory domain administrator, including user/group/computer administration, logon scripts, and Group Policy maintenance
- Wrote several utilities in C and multiple Visual Basic scripts to facilitate automatic configuration and maintenance of servers and workstations
- Created common Windows XP system image for 75 workstations, utilizing Microsoft Sysprep and a variety of custom utilities and scripts

IBM Global Services, Greensboro, NC   2/2005 – 9/2005
Migration Engineer
- Utilized Microsoft Sysprep to construct and test a Windows XP common system image for over 500 workstations
- Leveraged Symantec Ghost technology to deliver system image over the network to end-user workstations
- Wrote several utilities in C/C++ and multiple scripts to facilitate automatic configuration of Microsoft Windows XP image
- Microsoft Active Directory domain administrator in a domain consisting of over 800 users

DS Innovations, Winston-Salem, NC   10/1999 – 11/2005
Independent Computer Consultant
- Web design and implementation using a variety of cutting-edge technologies including database integration, e-commerce and web applications
- Large-scale computer rollouts (Windows, Linux, and Netware) including building, troubleshooting and client coordination
- Microsoft domain administrator in several domains consisting of over 1000 users

- ➢ [PYthon Piedmont Triad User Group](#) (PYPTUG) *(2014 – present)*
- ➢ The Triad Developers Guild (TDG) *(2015 – present)*
- ➢ Code For Winston-Salem ([Code for America](#) Brigade) *(2015 – present)*
- ➢ Piedmont Triad DevOps *(2016 – present)*