

# 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

- |   |  |
|---|--|
| <input type="checkbox"/> Systems Engineering  | <input type="checkbox"/> Documentation                       |
| <input type="checkbox"/> Automation/DevOps    | <input type="checkbox"/> Technical Mentoring                 |
| <input type="checkbox"/> Software Development | <input type="checkbox"/> Leadership                          |
| <input type="checkbox"/> Architecture         | <input type="checkbox"/> Process Development and Improvement |
| <input type="checkbox"/> Communication        | <input type="checkbox"/> Results Oriented                    |
| <input type="checkbox"/> Time Management      | <input type="checkbox"/> 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

(continued)

- 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

#### **Groups**

- [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)
- [Progressive Coders Network](#) (2016 – present)