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Clearance: SECRET  
Inactive/Archived

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## Skills

### Degree

- B.S. Applied Mathematics with minor in Computer Science

### Certification

- Red Hat : **RHCSA** – Red Hat Certified System Administrator
    - ◆ Certificate Number and Verification: [100-156-058](#)
  - Linux Professional Institute (LPI) : **LPIC-I**
    - ◆ ID: [LPI000062177](#) Verification Code: [wxdpatn4jh](#) ... [Certification Area](#)
  - Novell : **CLA** - Certified Linux Administrator
    - ◆ ID: [10020978](#) Date: [02/21/2010](#) ... [Certification Area](#)
  - Novell : **DCTS** – Data Center Technical Specialist
    - ◆ ID: [10020978](#) Date: [02/21/2010](#) ... [Certification Area](#)
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## Professional Experience

### Systems Engineer

Presilient

Broomfield, CO (April 2011 – January 2012)

Systems Engineer establishing Xen infrastructure via XCP servers and migrating/maintaining the enterprise software "GridWorks" to the Xen server environment.

- Setup and configured Xen Cloud Platform (XCP) for enterprise system.
- Setup and configured Kickstart (KS) and PXE servers for automated system builds.
- Established YUM repositories used in conjunction with the KS server to automatically install packages during system builds.
- Created templates for auto creation of virtual hosts.
- Configured Linux and Windows hosts in support of Presilient's software stack.
- Migrating services from remote data center to in-house data center.
- Documenting architecture, infrastructure items, and software configuration.

## **Systems Engineer**

Threshold Placement Services  
Littleton, CO (March 2011)

Systems Engineer for Oil and Gas Seismic Analysis Company, setup a clustered NAS using SCALE equipment.

- Setup and configured SCALE Computing servers (clustered NAS environment).
- Setup Apache server and Samba share for internal IT documentation.
- Provided system analysis report for improving enterprise computing environment.

## **Systems Engineer**

Modis  
Colorado Springs, CO (May 2010 - December 2010)

Systems Engineer supporting HPSA (opsware) application for Wells Fargo.

- Responsible for fixing Red Hat patching within the HPSA application.
- Wrote Perl script to restore unique permissions to over 5,000 files.
- Established and documented best practices for creating Red Hat software policies for deploying RPMs to over 6000 servers.
- Modified rhn\_import auto generated software policies to have the "repo.restrict" mechanism as part of best practice.
- Helped Troubleshoot RPM inconsistencies with system administrators.
- Installed Novell ZLM agents and performed system upgrades with ZLM.
- Provided recommendations for support of patching process.

## **Linux Systems Engineer**

Akamai Technologies  
Englewood, CO (July 2007 - November 2008)

Linux System administrator and programmer for content delivery network.

- Wrote Linux/Perl/XML monitoring script that launched failed processes and sent notification.
- Wrote Linux init scripts to standardize support environment.
- Configured/Installed SSL certificates for Linux/Apache.
- Programmatically restarted services using Expect
- Configured Linux hosts to be under *Akamai's* authentication and ACL.
- Loaded Linux OS images to host machines via PXE server.
- Created optimized Cygwin package for deployment on Windows servers.
- Configured Linux and Windows hosts to authenticate with SSH keys.

## **Senior Application Analyst**

JPMorgan Chase

Houston, TX (October 2006 - March 2007)

Analyst on Foreign Exchange trading system using *Murex* and *Sybase*.

- Co-developed Perl based AIX Jabber logging client.
- Loaded *Sybase* databases.
- Wrote Perl script to check on profit and loss calculations.
- Wrote flexible process script to perform various maintenance tasks.
- Supported the application using *Big Brother*.
- Performed database dumps
- Contributed documentation to support the application.

## **Operating Systems Architect**

LSG Technologies

Englewood, CO (March 2006 - May 2006)

DoD TriCare Management Authority re-platform project at Lockheed Martin Information Technology.  
Migration of a Windows based system to a UNIX based environment.

- Contributed to the development of the current state analysis report. Report involved analysis of existing infrastructure supporting Oracle Federal Financials (OFF) including Windows 2000 Server environment, network architecture, storage area network (SAN), DoD security requirements, and organizational support structures.
- Outlined operating environment, network, SAN, security, and support requirements for a UNIX or Linux based future state infrastructure.
- Researched requirements for re-platforming OFF to Solaris, HP-UX, AIX, and Linux.
- Analyzed surrounding IT infrastructure and operating environment for OFF Lockheed Martin business component.
- Collaborated on the development of a high-level transition plan to re-platform OFF in a UNIX/Linux environment.
- Provided deliverable document of future state design.

## **System Administrator**

L3 Titan Corporation

Colorado Springs, CO (September 2003 - September 2005)

Production support and software development.

- Maintained Solaris 8 iPlanet system implementing a web-based collaboration tool.
- Installed Solaris patches, upgraded application, backed-up system to tape.
- Analyzed STIGs for system compliance or modified system to be compliant.
- Provided user support for collaboration tool.
- Maintained and developed IIS (SharePoint Team Services) website.
- Established Backup/Restore procedures for a SharePoint Team Services site.
- Developed script (Perl) to find all subwebs on an STS site saving the company 2 weeks of man hours every time the data was needed. The cost savings to the government is \$5,000 per incident.
- Developed Exam and Certification process that is widely used. This process saved the division at least \$100,000.

## **Senior Programmer Analyst**

FedEx Corporate Services

Colorado Springs, CO (August 1999 - September 2003)

Support and develop NetReturn web-based returns management system.

- Lead developer of NetReturn API.
- Technical lead for OS upgrade from Solaris 2.6 to 2.8.
- Designed and developed P2D interface for use in NetReturn. This interface represents an enterprise to enterprise communication layer, enabling FedEx to talk to RPS (FedEx Ground).
- Primary Configuration Management analyst and developer of all CM tools.
- Wrote all configuration management tools in Perl/RCS for development group.
- Reverted entire production system back to previous code freeze label. This saved the entire project from having to spend time to backtrack and re-enter code.
- Developed Java based transaction client (GUI) routing to NetReturn API.
- Developed Perl/Linux test tool to generate/configure data for use with Java API transaction client. Designed client to monitor hardware and software availability.
- Designed, developed, maintained group website.
- Re-designed and coded migration software for unit, integration, and production levels.
- Load-Master for all production releases.
- Production Support of Solaris and Sybase systems.

## **UNIX Software Developer**

Tek Systems

Denver, CO (May 1998 - May 1999)

Streamlined software processes for telecommunications company.

- Developed enterprise wide script (ksh) to warn of limited disk space on UNIX mounts.
- Researched Call Data Records to improve archival of CDR's.
- Modified a program to additionally check the binary integrity of an AMA file.
- Designed a web based (CGI) file extraction lookup for internal help-desk. This made for faster customer support, saving the company thousands of dollars.

## **Technical Consultant**

Analyst International Corporation

Denver, CO (October 1997 - February 1998)

Analyze and remediate software for Y2K conversion.

- Subject Matter Expert on Y2K refactoring strategies.
- Installed/Configured Exceed software for Y2K remediation group.

## **Programmer Analyst**

ITT Space Systems Division

Colorado Springs, CO (September 1995 - September 1997)

Enhance KSAT and VSAT software modeling software (C-based).

- Analyzed and modified satellite view-angle module.
- Maintained and enhanced war game simulator in VSAT (Visual Scenario Analysis Tool).
- Debugged core files (via dbx) and fixed memory leaks in program.
- Setup hardware and software for KSAT/Astrodynamics demos.
- Designed and developed a declassification program for a UNIX environment.
- Wrote technical manual to run UNIX tcsh/csh script to declassify code.
- Converted Binary executable to new ELF format in IRIX 5.3.
- Maintained and administered software development environment.

## **Mathematician**

Battelle Pacific North Labs

Richland, Washington (1995)

Researched wavelet theory and its possible application to the analysis of the effects of anesthesia on the brain.

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## **Education**

**B.S. Applied Mathematics with minor in Computer Science**

**University of Colorado at Colorado Springs – College of Engineering (1987 – 1992)**

- Awarded NSF grant to study probability in population genetics.
- Mathematical formulation performed with MathCAD and Mathematica.