David Pendell

**Senior Linux System Administrator**

+ CONTACT

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Date of birth February 16

Gender Male

+ EXPERIENCES

SmartIMS/Lincoln

# Financial

I began using Linux in various distributions about 23 years ago. I began by purchasing Red Hat 5.1. Since that time, I have used Linux for a variety of tasks in both my personal and professional life. While my professional background shows an extensive developmental focus, I have been heavily involved in the SysAdmin side of Linux since the start. I will be an asset to your organization!

In my time at Lincoln Financial, I developed **Ansible** scripts that automated most of the process for Oracle/RedHat 7 to Oracle/RedHat 8 **LEAPP** in-place upgrades on VMWare machines. I wrote a **Python** script to automate a report

 2022 – Sep 2023 regarding systems with missing snapshots. In addition, I developed a **Perl** script

to fix Linux routing tables in the event that there were routing scenarios not covered by the Ansible scripts. Finally, I developed a Puppet module to extract ssl ciphers from OpenSSL and automate the configuration of those cipers into the OpenSSH configuration.

Analyst

REI Systems, Inc While at REI Systems, I worked as a project Linux Systems Administrator

primarily working on the NASA SBIR/STTR and NASA Ebooks projects. My duties included provisioning new systems and administering new and old project systems, over seeing backups, and troubleshooting application errors at the systems level. During my time, I implemented a migration from RHEL 6 to RHEL 7, implemented a migration of Weblogic to Tomcat, and a migration from Oracle

2015-2022

Senior Linux Systems

Administrator Database to Postgres. I have designed, documented and implemented VMWare infrastructures at both the software and hardware levels using **SAN**, and

**Networking**, **Apache/Tomcat clusters**, custom backup systems, and Ansible automation scripts. I have had experience with Puppet, **Ansible**, **Writing Ansible Playbooks**, **GitLab**, **Subversion**, WebLogic, Oracle Database, **Apache HTTPD**, **Apache Tomcat**, **SpaceWalk**, **Jenkins**, **CI/CD**, **LDAP**, **VMWare**, **NFS**, **YAML**, **System Security/Hardening**, **RHEL 5/6/7** and automation through Perl and **BASH** scripting. I also have some experience in using **AWS** for these tasks. In addition, I have experience with **networking design and implementation** using a Radware Alteon and Imperva SecureSphere. I remediated security vulnerabilities (**CVEs**) by tracking Linux CVEs, applying patches, scheduling reboots, and verifying that the CVE patches did apply. I would work with my supervisor to get **SSL** certificates, and apply those certificates, and then schedule reboots/service restarts to apply those certificates. Finally, I worked with developers to diagnose and troubleshoot problems with application issues at the systems level as well as the UI, business logic and data levels.

# City of Delta, Delta, CO

2010-2015

# System Administrator, Network Administrator,

During the 4.5 years that I have been at the City of Delta, I have done the following: re-architected the wireless network that connects the disparate building/departments to improve communication between them, converted their aging/failing Windows 2003 servers to **RHEL/CentOS** based virtualized hosts that include a **high availability cluster using Pacemaker**, converted their Active Directory system to one based on Samba 4 with redundant server in each

Desktop Support department, and converted their DNS system to **BIND9** with AD integration.

When I didn't find a backup system that I liked that was tailored to **KVM** based

virtualization, I wrote one in BASH. I assisted in redisigning the website to use a Dreamweaver template based system, oversaw the purchase, configuation and implementation of all of their server hardware and most of their desktop hardware, provided desktop support to ~50-75 users, built a write-once-read- many evidence video vault using Open Source for the PD, automated several SysAdmin tasks using **Ansible**, applying patches to remediate **CVEs** and a host of other tasks. Over the years, I have saved the City thousands in Microsoft Licensing Fees by using Samba3/4, and hardware costs in building their servers and desktops.

# Freelance Writer:

Linux.com July 2008 – Dec 2010

# Paonia.com, Paonia, CO (Now Skybeam.com)

June 2006 - Jan 2008 Wireless Field Technician

# C/S Solutions, Inc.,

Houston, TX July 2001 - October 2001

# Metro Information Services (Now Keane)

March 1998 - June 2001

# Programmer Analyst – Equiva Services (1/00 – 7/01) – Contract - MIS

Programmer Analyst – Unger Technologies (8/99

# – 1/00) – Contract - MIS

Programmer Analyst – BP Amoco (4/99 – 8/99) –

# Contract - MIS

In-House Programmer/Analyst (1/99 - 6/01) – Metro Information Services

# Programmer Analyst – GE

Capital Mortgage Services (8/98 – 4/99) –

I was responsible for finding topics that had not previously been covered on Linux.com, pitching my ideas to the editors there, and after approval, researching them thoroughly to cover those topics in a clear concise manner. During my time, I published nine articles with them. I used Python, PHP and SQL in diagnosing and testing various applications. I used KVM virtualization to setup all of the test machines. Please feel free to Google my articles.

My primary duties included all aspects of installation and maintenance of customer wireless Internet access. This included working with all manner of 802.11b/g hardware e.g. Rootennas, grid antennae, high frequency cabling and Ethernet cabling. During this time, I used Python, PHP, and SQL to update customer databases, pull information from those databases, and populate HTML pages.

I Implemented bug fixes in an existing Web site that was built using ASP, SQL 2000 and Active Directory. I designed and built a Web site to access Visual Source Safe using ASP, XML and XSLT.

During my time at Metro Information Services, I worked for the following companies in various development capacities.

My primary responsibility has been to enhance and support the Genesis Network Distributor Web Site. This included the optimization of the original SQL code and converting the system to use a 4-tiered architecture using MTS and PL/SQL stored procedures. I assisted in the design of the Genesis replacement. The new system will be n-tier and use XML and Biztalk for inter-tier communication. During my time there, to facilitate flexible development, I setup a Linux server, and with the help of the resident Oracle administrator, setup an Oracle Database that we could use for testing new ideas.

I designed, implemented and tested a Visual Basic DLL implementation of a middle-tier security provider for a Web-Based Project Management solution. Designed, implemented and tested a Java server that will provide an encrypted middle-tier for a web based Project Management solution. The server interfaced with a **Microsoft SQL Server 7.0** database created from Microsoft Project 98 SR-1. I assisted in the modification of a Java Applet that provided the front end of the Java Server. I designed, implemented and tested an HTML/JavaScript based solution for environments where the Java System would be unsuited. I designed, implemented and tested a Visual Basic DLL to provide the functionality of the Java Server to the HTML/JavaScript implementation of the Project Management Solution.

I designed and implemented an Access 95 database to track and report on HR organizational information. I built reports to allow users to make informed decisions about changes within the HR structure. I migrated Excel spreadsheet data to new Access database.

I was a Training Coordinator/Consultant Advisor – I taught classes in Visual Basic 6.0, **Linux/Unix**. I designing Metro Training Website to track the Professional Development Plans for Metro Staff Members in the Houston area. I used C++, CGI, SQL and PHP3.0. The system was designed to use **MySQL** SQL server on a **Linux** platform. The Web server was **Apache**. The system was originally designed to use CGI, using C++ as the processing language. I converted this to PHP due to maintenance considerations.

I was responsible for converting an existing COBOL Mainframe program that performed Manufactured Housing Mortgage Amortization, to a Y2K compliant Visual Basic equivalent. I was responsible for the design, development, and testing of a majority of the Client/Server half of the project with a strong focus

Contract - MIS on the amortization of customer loans.

# In-House Programmer/Analyst (11/98) – Metro Information Services

Programmer Analyst – KVM Technologies (3/98 – 8/98) – Contract - MIS

# Programmer Analyst - Ink

Impressions Inc.

# September 1997 - March

1998

# Programmer Analyst/Network Administrator – First Source Appliance Parts

May 1995 – July 1997

+ EDUCATION

I created an Access 97 database to track Client information and match Staff Member skills sets with potential Clients.

I was primary software support for the Automated Medication Dispensing System developed by a Nation Medical Equipment Manufacturing Company. My duties included addition of new functionality and modules to the existing software system, debugging existing modules, conversion of integrated applications from Visual Basic 4.0 to Visual Basic 5.0, setup of **Visual SourceSafe 5.0** and the initial check in the of the 32 bit versions of the system.

I was on a team responsible for the development of the Voter History Tracking System. This system, developed in Visual Basic 5.0 and Access, tracked voting participation from various precincts on laptops. This data was then migrated to the main Voter History System. This system included "Total Enrollment Administration Management System” (TEAMS). This system, written in Access, tracked information pertinent to the administration of American Indian Tribal Government, i.e. families, residences, election eligibility, bloodline, family tree, etc. I also created the Conversion Tracking System. This system, developed in Access, automated the tracking of queries and procedures used to convert the data from the original customer database. This was later useful in designing forms and reports for customer needs. I was also responsible for the initial setup of the **NT Server** and **SQL Server 6.5** that was used in the backend. I wrote a reporting engine that produced reports on the fly based on an SQL string built by a user interface.

One of the first things that I helped with was converting the old microfiche parts lookup system to a network based system. I was responsible for setting up the "server" and the workstations and configuring the server program. While I was there, I was a "jack-of-all-trades" and did everything from the aforementioned networking to Desktop Publishing and AS/400 support. I was also responsible for the Mailing List System. This system, written in Visual Basic, automated the analysis of a catalog mailing list that removed unwanted or incorrect data and put it in a format specified by the printers for their use in shipping. I also created the Catalog Creation System. I created SQL queries based on data extracted from an AS/400 on the items that were to be included in the catalogue. This system gathered the data and automated the page layout process. In addition a DDE Link was created to Adobe PageMaker from Access to facilitate sending part numbers, part information and formatting instructions.

Once the system finished its process the catalogue was approximately 80% complete.

2006 **Bachelor of Arts in English** University of New Mexico Albuquerque, NM

87131

2004 **Associate of Arts in Arts and Science** Central New Mexico Community College 525 Buena Vista Dr. SE

Albuquerque, NM 87106

## 2001 Microsoft Certified Solutions Developer

Exam 70-100 – Analyzing Requirements and Defining Solution Architectures

Exam 70-175 – Designing and Implementing Distributed Applications with Microsoft Visual Basic 6.0

Exam 70-176 – Designing and Implementing Desktop Applications with Microsoft Visual Basic 6.0

Exam 70-152 – Designing and Implementing Web Solutions with Microsoft InterDev 6.0

Service Awards Metro Information Services – GE Capital (1999)

Metro Information Services – Metro Training Coordinator (2001)

+ IT PROFESSIONAL SKILLS

## Operating systems CentOS/RHEL Linux, Ubuntu Linux, Windows XP/2003, Windows 7/2008 R2, VMWare

Services **Pacemaker HA, SELinux, Bind 9, ISC DHCP, Samba 3, Samba 4 Active Directory, Windows 2003/2008R2 Active Directory, MySQL, ownCloud, Weblogic, Apache HTTPD, Apache Tomcat, Oracle Database, PostgreSQL database.**

System development **BASH, sed, Perl, Ansible, Puppet**

Web **HTML4, SQL**

+ PROFESSIONAL HIGHLIGHTS + OTHER SKILLS AND HOBBIES

I strive to be highly professional, patient and tolerant in all of my work encounters.

I work well in groups and with customers.

If confronted with a problem for which I do not know the solution, I'll learn the solution and implement it, quickly.

I am highly creative in problem solving.

When trying to solve a problem, I'll attempt to use Open Source technologies before spending money.

I enjoy problem solving computer games. e.g. Portal/Portal2, Kerbal Space Program.

I follow computer security news and learn how to protect against the latest threats. e.g. Wifi Hardening, Server Hardening.

I enjoy non-linear video editing.

I help my wife homeschool our kids by teaching them science and math.