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Executive Summary

DevOps Engineer with over 20 years of experience managing Windows, Linux/UNIX, and OSX. Strong focus on automation. Work environments have been heterogeneous (Windows, OSX, and several flavors of Linux/UNIX), small to medium sized (10-120 servers, 20-300 workstations), and mixed locations (all local to all remote teams).

Relevant Job History

Weight Watchers - Systems Engineering Lead

New York City, NY - 2014-2015
- Configured Vormetric products to ensure HIPAA compliance for customer data.
- Worked to transfer from Rackspace Cloud to Openstack based private cloud.

OrcaTec, LLC - Developer

Atlanta, GA (Telecommute) - 2012-2014
- Debugged and resolved memory issues that were causing systems to shut down.
- Incorporated memcached into our stack to handle sessions and cached data.
- Installed and configured WSO2 Identity Server for our OpenID implementation
- Switched web server from Paster to Apache with mod_wsgi.

Choopa.com - Developer

Sayreville, NJ - 2012
- Configured Bacula backup system as replacement for custom backup scripts.
- Reconfigured Nagios monitoring, reducing full check from 8 hours to 2 minutes.

6th Avenue Electronics - Systems Administrator, DevOps Engineer

Springfield, NJ - 2005-2008, 2011
- Installed and configured Zenoss for full systems monitoring.
- Implemented VMware Virtual Infrastructure 3.
- Maintained Tyler POS/ERP system on HP-UX (and, later, Linux).
- Maintained Active Directory, including implementation of group policy.

Datapipe, Inc. - UNIX Developer

Jersey City, NJ - 2008-2011
- Optimized PostgreSQL on FreeBSD. Bulk inserts reduced from hours to 20 minutes.
- Debugged Python, FreeBSD, Apache, and modwsgi working together.

Diversified Systems - Systems Adminisrator / Developer

Hackettstown, NJ - 2002-2005
- Deployed Unattended, an automated Windows installation system.

For more history going back to 1995, please visit my website at http://www.icelus.org/
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- Implemented [HylaFax](#) fax server for incoming and outgoing faxes, allowing electronic receipt of over 200 pages of faxes per day from field technicians.

Specific Skills

Operating Systems Administered

	Time Used	Last Used	**Proficiency**
Linux ([Debian](), [RedHat](), [Suse](), [Ubuntu]())	12 years	2014	Excellent
Microsoft Windows (2008/7/Vista/2003/XP/NT/98/95)	12 years	2011	Very Good
UNIX ([Solaris](), [AIX](), [HP-UX]())	5 years	2011	Very Good

Database Servers

	Time Used	Last Used	**Proficiency**
[MySQL]()	3 years	2014	Fair
[PostgreSQL]()	5 years	2011	Fair
[Microsoft SQL Server]()	3 years	2008	Fair

Applications

	Time Used	Last Used	**Proficiency**
[Ipswitch What's Up]()	2 years	2008	Good
[Nagios]()	3 years	2012	Good
[OpenStack]()	<1 year	2012	Fair
[VirtualBox]()	3 years	2014	Good
[VMware]()	6 years	2011	Fair
[Zenoss]()	<1 year	2011	Fair

Networking and Security

	Time Used	Last Used	**Proficiency**
[Checkpoint VPN]()	2 years	2007	Fair
Cisco	3 years	2011	Fair
Firewall Design	5 years	2011	Good
TCP/IP	10 years	2014	Very Good

Programming and Scripting Languages

	Time Used	Last Used	**Proficiency**
[Bash]()	6 years	2014	Good
C/C++	12 years	2009	Good
[Java]()	1 year	2014	Fair
Javascript	2 years	2014	Good
[Perl]()	6 years	2012	Fair
[PHP]()	2 years	2012	Fair
[Python]()	6 years	2014	Excellent

Education

Bachelor of Science in Computer Science, 2000
East Stroudsburg University, East Stroudsburg, Pennsylvania

Project History

Paster to Apache/mod_wsgi Conversion

Period	2013
Company	OrcaTec, LLC
Tools	Python, Apache, mod_wsgi, Paster
Platform	Ubuntu Linux

Paster is meant to be used in a development environment, allowing the developer to use a (single threaded) lightweight, easily managed webserver while writing code before it goes to production. At OrcaTec, we were using Paster both in development and in production. Due to the demands being placed on Paster (in many instances, loading up documents that were over 100M), the entire system could appear (to one user) to freeze up due to it responding to a request from another user.

After analysis, we were able to determine that Paster was no longer suitable for our needs. Since Apache, with mod_wsgi, provides an at least adequate performance web server (in comparison to others like Nginx), and the Apache configuration was already known to the team, we chose to switch from Paster to Apache. This allowed us to have Apache itself serve up static files (like images, css files, and javascript files), leaving the dynamic pages to the Python code.

- Debugged threading/locking/memory usage issues with Paster.
- Recompiled and repackaged Python 2.6.8, Apache, and mod_wsgi for use with Ubuntu 10.04.
- Developed automatic Apache configuration for use within our local stack.

SAP to Tyler Conversion

Period	2011
Company	6th Avenue Electronics
Tools	AutoIt3, CentOS Linux, Python
Platform	Server: CentOS Linux, Client: Windows

6th Avenue Electronics found that SAP was not a workable solution for them. The decision was made to switch back to the Tyler POS system, clearing out old mistakes and improving maintainability. I managed the technical aspects of the migration, while my immediate managers handled the business aspects.

Due to the costs associated with SAP, we had just over three months, in total, to complete the transition. We were successful.

- Wrote several one-off scripts to check data that was sent in various Excel spreadsheets. Validate that all entries in column A of File 1/Sheet 1 are in Column C of File 2/Sheet 1.
- Used AutoIt3 to automate the update of several items that could only be keyed into the client. No import existed at all. This reduced work from several hours down to an hour (including the initial script creation).
- Developed an automated installer that was used to handle installing all components (receipt printer, fonts, initial configuration) on every machine in the company.
- Worked with Tyler Retail Systems to configure the server properly.
- Developed snapshot backup strategy that reduces downtime for Tyler to mere minutes per night.

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