

Michael J. Pedersen
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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 Administrator / Developer

Hackettstown, NJ - 2002-2005

- Deployed [Unattended](#), an automated [Windows](#) installation system.
- Implemented [HylaFax](#) fax server for incoming and outgoing faxes, allowing

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electronic receipt of over 200 pages of faxes per day from field technicians.

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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

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Education

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

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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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