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# Executive Summary

DevOps Engineer with over 20 years of experience managing [Windows](http://windows.microsoft.com/en-US/windows/home), Linux/UNIX, and OSX. Strong focus on automation. Work environments have been heterogeneous ([Windows](http://windows.microsoft.com/en-US/windows/home), 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](http://www.vormetric.com/) products to ensure [HIPAA](http://en.wikipedia.org/wiki/Health_Insurance_Portability_and_Accountability_Act) compliance for customer data.
* Worked to transfer from [Rackspace Cloud](http://www.rackspace.com/cloud) to [Openstack](http://www.openstack.org/) 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](http://wso2.com/products/identity-server) for our [OpenID](http://www.openid.net/) implementation
* Switched web server from [Paster](http://www.pythonpaste.org/) to [Apache](http://httpd.apache.org/) with [mod\_wsgi](https://code.google.com/p/modwsgi/).

## Choopa.com - Developer

Sayreville, NJ - 2012

* Configured [Bacula](http://www.bacula.org/) backup system as replacement for custom backup scripts.
* Reconfigured [Nagios](http://www.nagios.org/) 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](http://www.zenoss.org/) for full systems monitoring.
* Implemented [VMware](http://www.vmware.com/) Virtual Infrastructure 3.
* Maintained [Tyler](http://www.tylernet.com/) POS/ERP system on [HP-UX](http://www8.hp.com/us/en/products/servers/hp-ux.html) (and, later, Linux).
* Maintained Active Directory, including implementation of group policy.

## Datapipe, Inc. - UNIX Developer

Jersey City, NJ - 2008-2011

* Optimized [PostgreSQL](http://www.postgresql.org/) on [FreeBSD](https://www.freebsd.org/). Bulk inserts reduced from hours to 20 minutes.
* Debugged [Python](http://www.python.org/), [FreeBSD](https://www.freebsd.org/), [Apache](http://httpd.apache.org/), and [modwsgi](https://code.google.com/p/modwsgi/) working together.

## Diversified Systems - Systems Adminisrator / Developer

Hackettstown, NJ - 2002-2005

* Deployed [Unattended](http://unattended.sourceforge.net/), an automated [Windows](http://windows.microsoft.com/en-US/windows/home) installation system.
* Implemented [HylaFax](http://www.hylafax.org/content/Main_Page) 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](http://www.debian.org/), [RedHat](http://www.redhat.com/), [Suse](http://www.suse.com/), [Ubuntu](http://www.ubuntu.com/)) | 12 years | 2014 | Excellent |
| Microsoft Windows (2008/7/Vista/2003/XP/NT/98/95) | 12 years | 2011 | Very Good |
| UNIX ([Solaris](http://www.oracle.com/solaris), [AIX](http://www.ibm.com/systems/power/software/aix/), [HP-UX](http://www8.hp.com/us/en/products/servers/hp-ux.html)) | 5 years | 2011 | Very Good |

## Database Servers

|  | Time Used | Last Used | Proficiency |
| --- | --- | --- | --- |
| [MySQL](http://www.mysql.com/) | 3 years | 2014 | Fair |
| [PostgreSQL](http://www.postgresql.org/) | 5 years | 2011 | Fair |
| [Microsoft SQL Server](http://www.microsoft.com/en-us/server-cloud/products/sql-server/) | 3 years | 2008 | Fair |

## Applications

|  | Time Used | Last Used | Proficiency |
| --- | --- | --- | --- |
| [Ipswitch What's Up](http://www.whatsupgold.com/) | 2 years | 2008 | Good |
| [Nagios](http://www.nagios.org/) | 3 years | 2012 | Good |
| [OpenStack](http://www.openstack.org/) | <1 year | 2012 | Fair |
| [VirtualBox](http://www.virtualbox.com/) | 3 years | 2014 | Good |
| [VMware](http://www.vmware.com/) | 6 years | 2011 | Fair |
| [Zenoss](http://www.zenoss.org/) | <1 year | 2011 | Fair |

## Networking and Security

|  | Time Used | Last Used | Proficiency |
| --- | --- | --- | --- |
| [Checkpoint VPN](http://www.checkpoint.com/) | 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](http://www.gnu.org/software/bash/manual/bashref.html) | 6 years | 2014 | Good |
| C/C++ | 12 years | 2009 | Good |
| [Java](http://www.java.com/) | 1 year | 2014 | Fair |
| Javascript | 2 years | 2014 | Good |
| [Perl](https://www.perl.org/) | 6 years | 2012 | Fair |
| [PHP](http://www.php.net/) | 2 years | 2012 | Fair |
| [Python](http://www.python.org/) | 6 years | 2014 | Excellent |

## Education

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

# Project History

## [Paster](http://www.pythonpaste.org/) to [Apache](http://httpd.apache.org/)/[mod\_wsgi](https://code.google.com/p/modwsgi/) Conversion

|  |  |
| --- | --- |
| **Period** | 2013 |
| **Company** | OrcaTec, LLC |
| **Tools** | [Python](http://www.python.org/), [Apache](http://httpd.apache.org/), [mod\_wsgi](https://code.google.com/p/modwsgi/), [Paster](http://www.pythonpaste.org/) |
| **Platform** | [Ubuntu](http://www.ubuntu.com/) Linux |

[Paster](http://www.pythonpaste.org/) 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](http://www.pythonpaste.org/) both in development and in production. Due to the demands being placed on [Paster](http://www.pythonpaste.org/) (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](http://www.pythonpaste.org/) was no longer suitable for our needs. Since [Apache](http://httpd.apache.org/), with [mod\_wsgi](https://code.google.com/p/modwsgi/), provides an at least adequate performance web server (in comparison to others like Nginx), and the [Apache](http://httpd.apache.org/) configuration was already known to the team, we chose to switch from [Paster](http://www.pythonpaste.org/) to [Apache](http://httpd.apache.org/). This allowed us to have [Apache](http://httpd.apache.org/) itself serve up static files (like images, css files, and javascript files), leaving the dynamic pages to the [Python](http://www.python.org/) code.

* Debugged threading/locking/memory usage issues with [Paster](http://www.pythonpaste.org/).
* Recompiled and repackaged [Python 2.6.8](http://www.python.org/), [Apache](http://httpd.apache.org/), and [mod\_wsgi](https://code.google.com/p/modwsgi/) for use with [Ubuntu 10.04](http://www.ubuntu.com/).
* Developed automatic [Apache](http://httpd.apache.org/) configuration for use within our local stack.

## [SAP](http://www.sap.com/) to [Tyler](http://www.tylernet.com/) Conversion

|  |  |
| --- | --- |
| **Period** | 2011 |
| **Company** | 6th Avenue Electronics |
| **Tools** | [AutoIt3](https://www.autoitscript.com/site/autoit/), [CentOS](http://www.centos.org/) Linux, [Python](http://www.python.org/) |
| **Platform** | Server: [CentOS](http://www.centos.org/) Linux, Client: [Windows](http://windows.microsoft.com/en-US/windows/home) |

6th Avenue Electronics found that [SAP](http://www.sap.com/) was not a workable solution for them. The decision was made to switch back to the [Tyler](http://www.tylernet.com/) 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](http://www.sap.com/), 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](https://www.autoitscript.com/site/autoit/) 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](http://www.tylernet.com/) Retail Systems to configure the server properly.
* Developed snapshot backup strategy that reduces downtime for [Tyler](http://www.tylernet.com/) to mere minutes per night.