

Christopher C. Petro

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Employment History

October 2015 to Present: Atayo Systems/MBI Solutions, Team Lead, Utility Infielder, Developer, ersatz PM

Team lead for the Developer Support and Application Support teams. MBI is working with Blue Shield of California to build a data warehouse using the Netezza appliance. The Dev Support supports the developers in that effort by handling most of the non-development tasks.

- Developed workflow, including custom processing in bash, and SQL for ingesting files into data warehouse
- Assist where needed in the troubleshooting and development of application infrastructure code
- Work with developers to define goals, determine needs and focus and refine processes
- Work with external groups and service providers to meet those goals and needs as well as acquiring resources
- Write and maintain monitoring and information gathering scripts in Bash and Python
- Work with other organizations at BSC to develop, maintain processes and resolve problems
- Lead and managed the Application Support team (April '16 to April '17)
- Mentor and lead both junior team members, peers, management and senior developers

March 2014 to October 2015: Teksystems/Comcast Inc., Senior Linux Administrator

Member of the operations team managing of Comcast's IP based Content Distribution Networks (CDN)

- Deploying and managing servers (Centos 6.x on HP & Dell hardware) using custom kickstart & puppet.
- Troubleshooting the CDN and Traffic Control (a Comcast written open source control plane for Apache Traffic server <http://traffic-control-cdn.net/>).
- Writing & fixing scripts(Bash, Perl, Python) for automation including using Traffic Control API
- Worked with the engineering team to provide bug fixes, feature enhancements and documentation for Traffic Control in Perl (listed as a Contributor to Traffic Control)
- Helped manage the development environment, budgeting & ordering of new equipment

July 2013 to Dec 2013: Robert Half Technologies/Viasat, Contract Senior Linux Administrator

Assisted the Back Office Operations team.

- Server provisioning with Cobbler including template customization with Cheeta
- Installation with kickstart & configuration management with Puppet
- Python and Bash scripting as well as process documentation

November 2010 to December 2012: Raytheon IIS, Senior Technologist I

Provided System Administration (Unix, Red Hat Linux variants, etc.) in Alice Springs, Australia to the Operations and Maintenance organization (about 7 months) and to an R&D lab (17 months)

- Worked with site security on integrating a new firewall & security audits.
- Assisted with budgeting & resource/purchase prioritization
- Worked with multinational team & coordinated between organizations on three continents.
- Provided advanced support to researchers & analysts

March 2010 to July 2010: Vendio Services, Inc. Contract Linux/Unix Systems Administration

Assisted Vendio with clean up and integration work during a transitional period. Company was sold to Alibaba.

- Deep troubleshooting of ongoing problems relating to integration of very dissimilar networks
- Reported on underlying issues directly to CTO.

November 08 to November 09: Raytheon Intl. Sup Co., Senior Technologist II (Baghdad, Iraq)

- Install and supporting VMWare ESX & Virtual Center at over 9 sites around Iraq for Centcom
- Mentored and provided leadership to junior employees

September 07 to November 08: Consulting and Contracting

- Support for VMWare's ESX/Virtual Infrastructure to Single Point Of Contact
- Linux, Unix, and VMWare/Virtualization support to Saratoga Data Systems

Technical Synopsis

Experience working in a 24×7 and “Mission Critical” operations environments ranging from Silicon Valley startups to DoD data centers and research labs, with the majority of the experience being Linux based systems (Predominately Red Hat, Centos and Debian/Ubuntu) and VMWare ESX.

Several years experience in running small to mid-sized (5 to 600s server) Internet sites, as well as some experience large sites (5k servers), multi-site networks, internal IT and help desk/Technical Support.

Worked with switches including the Cisco and Juniper. Most of the experience is in vlan/switchport configuration and troubleshooting. Also LACP bonding on both server and switch/router side.

Installation and troubleshooting on various SANs and NASs (EMC, HP, NetApp).

Experience working with Big Data/Bi Developers and Operations.

Experience in security hardening and risk management, both in civilian and DoD settings.

Experience with many network protocols including SMTP, HTTP, DNS. Experience with NFS, and SAMBA/CIFS. Experience with NIS and LDAP (enough exposure to Active Directory to have acquired immunity). Utilized Linux and OpenBSD to implement Proxies, Caching Web Proxies (with Squid and Apache Traffic Server) and firewalls (Linux's IP Tables and Secure Computing's Sidewinder). Network monitoring with Nagios, including writing plugins. Experience with both Hardware & Software RAID and LVM on Linux. Implemented various archive, backup and DR strategies—including the use of Veritas NetBackup. Created Kickstart install servers and configurations.

Experience administrating both Mysql and PostgreSQL, including some limited database development. Some work with IBM's Netezza data warehouse appliance. Some experience with SQL, up to the level of basic joins.

Proficient in BASH and Python scripting, less so in Perl and PHP. Some exposure to C, C++, and Java. Experienced with building software, both from packages and from source code. Experience with Puppet, Cobbler and similar technologies.

Certifications

CISSP

CompTIA: A+, Net+, Security+

VMWare: VCP 2.5 and 3.0 (expired and not used in a while).

Education

School of the Art Institute of Chicago

Earned a Bachelors of Fine Arts. Studies focused on Graphic Design and Art & Technology.

Clearances

Was formerly cleared to Top Secret. Expired in 2013.