

Mathew Moon

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Linux Engineer and Software Developer

I am a highly motivated Linux professional with experience in systems administration, infrastructure design and implementation, software development, support, and management with a drive for developing applications and the platforms upon which they run using Linux and other open source technologies. My passion for Linux and open source software is the reason I have dedicated my career largely to the use and support of these services and operating systems.

Technology Summary

Operating Systems :

- Red Hat Enterprise Linux (RHEL)
- Debian
- Ubuntu Server
- Cent OS (Open source RHEL)
- Suse Linux
- Microsoft Windows Server (2012, 2012 R2, 2008, 2008 R2, 2003)
- Fedora

Services :

- PostfixMTA
- Exim MTA
- MySQL
- PostgreSQL
- MSSQL
- MSDNS
- Active Directory
- Nginx Web Server
- Apache Web Server
- Microsoft IIS
- Microsoft Hyper-V
- Qemu VM(Zen and KVM virtualization)
- Bind DNS
- Microsoft DNS
- Git
- SSH server
- PHP-FPM
- Phusion Passenger (Ruby on Rails server)
- OpenVPN server
- Cisco VPN server
- Zabbix Monitoring Server (SNMP)
- Nagios Monitoring Server (SNMP)
- Cpanel/WHM
- Many more...

Languages :

- Python
- Bash
- PHP
- HTML5
- Javascript (Client side, including frameworks such as Angular, JQuery, JQuery UI)
- NodeJS (Server side Javascript, including frameworks such as Express)
- CSS3

Platforms (PAAS):

- Amazon AWS
- Google App Engine
- Microsoft Azure
- Heroku

Gulf Shore Assemblies

Systems Administrator

01/2017-05/2017

Position Overview

Manage IT systems in a manufacturing environment including MSSQL, MySQL, MS Server, Active Directory, File Sharing services, DNS, etc.

Key Contributions

- Created database backup and management system written in Python
- Recreated entire Active Directory topology for all three domains we managed
- Created new interface for ticketing system using HTML5, Angular, and CSS3
- Converted ticketing system backend to an API in PHP

The RoundHouse

Developer / Systems Engineer

06/2016 - 01/2017

Position Overview

Provided software development and systems design to startup companies being incubated by The RoundHouse. Helped new tech companies get their products to market under extremely tight schedules and budgets while creating quality code that is easily maintainable.

Key Contributions

- Designed server side applications using PHP, NodeJS and Python
- Provide UI design on multiple platforms, including mobile, using HTML5, Python, Javascript, and CSS
- Create mobile applications using Cordova, Ionic, Angular, Angular2, and other plugins for Apache Cordova
- Build hosting environments and deploy customer applications using AWS, Google Cloud Platform, Digital Ocean, and more
- Designed our Agile process and Jira workflow
- Implemented BitBucket Pipelines into our workflow for continuous integration for projects that required it

BBVA Compass

Support Engineer/Systems Analyst

01/2016- 06/2016

Position Overview

Parse and analyze logs for errors, troubleshoot enterprise-class API, and create work orders for coding and infrastructure changes based on findings.

Key Contributions

- Identified major bugs and security vulnerabilities in BBVA's OpenPlatform by reviewing Java code and stack traces using Dynatrace
- Provided tier 1 support to third party developers
- Created technical documentation using Apiary's documentation authoring platform
- Reviewed configurations for systems and applications, making recommendations for improvements in our DevOps department
- Worked on end to end continuous integration and continuous delivery using AWS Pipelines and Atlassian's suite of tools, including Bamboo, Jira, and BitBucket
- Authored tools in Python and bash for parsing logs, capturing stack trace information, and finding patterns of recurrence in our error logs

Jamersan LLC.

Systems Engineer / Developer

2015-2016

Position Overview

Build infrastructure for hosting customer applications, provide support to developers and assist in development of customer applications as well as design applications for deploying and managing virtual environments and services.

Key Contributions

- Built our own custom hosting platform utilizing Docker containers, PostgreSQL, MySQL, Nginx, Redis, PHP-FPM, and CentOS
- Developed application for VM management and deployment using Python, PHP, Javascript, HTML5, and frameworks such as JQuery
- Managed and administrate servers for corporate sites including Charbroil.com, Badlandspacks.com, Zebco.com, Quantumfishing.com, plus many others
- Managed Git repository and workflow, including all merges and deployments and integration into Jira
- Built world-class ecommerce sites using Magento, PHP, HTML5, and Javascript

Vipaar LLC.

Lead Systems Engineer

2014-2015

Position Overview

Design and implement complete infrastructure for Vipaar's products and internal services. Manage business services such as email and file sharing. Create and use tools for managing applications in a virtual environment. Assist in the development of our product as requested by development team.

Key Contributions

- Used PHP to replace the backend of an outdated .NET application by creating a new Rest API
- Created a virtualization platform using Python, Javascript, HTML5, jQuery, and Bash to serve as a management console for our application's environment
- Developed a backup and failover system for PostgreSQL using Bash and Python
- Converted MSSQL databases to PostgreSQL using only open source tools

KnownHost LLC.

Systems Administrator/Developer/Support Supervisor

2012 to 2014

Position Overview

Responsible for OS administration, updates, software installation and security of over 300 bare metal servers that host 12,000 virtual servers as well as a group of over 200 dedicated customer servers. Administrated SMTP and POP/IMAP mail servers, web servers (Apache, Nginx, and Litespeed), SQL servers, firewalls, and various control panels.

Key Contributions

- Coded and implemented a web application used by support for daily tasks
- Created browser plugins for Chrome that interact with ticketing system
- Assisted in establishing security focused network abuse department
- Established practices and guidelines for securing compromised servers
- Created a PHP based paste bin used for by support department

Moon Telecom

Owner/Technician/Systems Administrator

2007-2012

Position Overview

Provide open source solutions to small and medium businesses. including LDAP, email, application hosting, VOIP, file sharing, remote access, VPN, phone and data wiring, network design, security camera and PVR installation/configuration, hardware repair, and web development. Along with my direct customers I also subcontracted for several national managed service providers including Contingent Network Services, One SOURCE Managed Services, and Westec Intelligent Surveillance.POS troubleshooting.

Key Contributions

- Premise wiring including demarc extensions and circuit termination
- Router/switch installation and loading of customer's configuration
- Managed daily operations including sales and service
- Implemented VOIP and PBX using open source technologies
- Install and troubleshoot POS, security camera, and PVR systems
- Internal and customer web application development