

Mathew Moon

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Linux Engineer and Software Developer

I am a 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
- Suse Linux
- CoreOS
- Microsoft Windows Server

Languages / Frameworks

- NodeJS
- Javascript
- PHP
- Python
- C/C++
- Bash

Services

- Exim MTA
- Postfix
- MySQL
- PostgreSQL
- PHP
- Apache
- Nginx
- Litespeed
- Ansible
- Git
- SVN
- LDAP
- NFS
- Samba
- MS AD
- Bind DNS

Virtualization / PaaS

- AWS
- Microsoft Azure
- Heroku
- Google Cloud
- Docker
- KVM / QEMU
- Virtuoso

Athena IOT

Developer/Systems Engineer
6/2017 - Current

Position Overview

Athena's goal is to support the aggregation of data, scheduling of events, and data representation for any device capable of running our Python or C client, including SBC's, Arduino and generic microprocessor boards. As the primary developer my responsibilities include development of Athene Server, client code, infrastructure, and device design.

Key Contributions

- Development of Athena Server using PHP and NodeJS
- Client software for devices using Python and C
- Platform implementation using tools such as Docker and AWS
- Circuit design/builds for our own microprocessor based devices and shields
- Code management in GitLab
- Design of pluggable communication stacks

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
- Provided tier 1 support to third party developers
- Created technical documentation
- Reviewed configurations for recommendations to DevOps
- Worked on continuous integration using AWS Pipelines and Atlassian's suite.
- Authored tools for parsing logs, capturing stack trace information, and finding patterns 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 custom hosting platform utilizing Docker containers, PostgreSQL, MySQL, Nginx, Redis, PHP-FPM, and CentOS
- Developed application for VM management and deployment
- Assisted in infrastructure design and administration for corporate sites including Charbroil.com, Badlandspacks.com, Zebco.com, Quantumfishing.com
- Managed Git repository and workflow, including all merges, deployments, and Jira integration. (Managed all Git workflow for W.C. Bradley sites that Jamersan developed)
- Built world-class ecommerce sites using Magento CMS

Vipaar LLC.

Lead Systems Engineer

2014-2015

Position Overview

Design and implement complete infrastructure for Vipaar's products and internal services as well as manage internal services such as email and domain control

Key Contributions

- Used PHP to replace .NET applications by creating API using PHP
- Created PaaS for our application environment
- Developed database failover and backup system
- MySQL and PostgreSQL database management
- Manage Git and software deployments
- Assist in software development as requested by developers
- Provide unit testing

KnownHost LLC.

Systems Administrator/Developer

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.

Key Contributions

- Coded and implemented custom administration application for support department
- Created browser plugins for integration with ticketing system
- Assisted in establishing network security and abuse department
- Established practices guidelines securing compromised customer servers
- Supervised support department