

Dylan M. Taylor

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CAREER

INTERNATIONAL BUSINESS MACHINES

- Watson Platform for Health Life Science Infrastructure DevOps
- Bluemix DevOps Services Site Reliability Engineer
- UrbanCode Deploy Software Engineer

Research Triangle Park, North Carolina

June 2017 - Present

September 2016 - June 2017

July 2015 - September 2016

TECHNICAL SKILLS

Python, Java, C++, Perl

Ansible, UCD, Chef

Version Control; Git, SVN, RTC

GitHub Enterprise, Gerrit, Gitlab

Red Hat, Ubuntu, OpenSUSE Linux

Shell Scripting, PowerShell

MySQL, PostgreSQL, Nginx

Travis CI, Jenkins, AnthillPro

Unit Tests, Acceptance Testing

OpenStack, SoftLayer, AWS

HTML, JS, CSS, XML, JSON

Docker, Vagrant

Cloud-Init, CloudBase Init

Flask, Tomcat, some Node.js

Ceph Storage

PROFESSIONAL EXPERIENCE

- As part of a development team, worked on architecting and deploying a Continuous Integration and Delivery pipeline for production software development and wrote an integration testing framework to ensure proper product functionality. Assisted with work to integrate Docker Trusted Registry into CI.
- Developed custom OpenStack heat plugins to facilitate the deployment of customer software to cloud providers using OpenStack heat templates and UrbanCode Deploy, Chef, and SaltStack components. Utilized multiple third-party APIs and Python modules.
- Implemented and maintained a service offering REST endpoints using Flask and Python libraries to authenticate to cloud providers such as Amazon Web Services, IBM SoftLayer, Microsoft Azure, and VMWare in order to discover resources and return them in a JSON format.
- Utilized UrbanCode AntHillPro and Gerrit with administrator rights on our production servers in order to setup automated pre-flight build lives for our product, pull in repositories for upstream dependencies, maintain build configurations, and make privileged configuration changes.
- Administered thousands of Linux systems across several cloud providers. Had billing and ordering capabilities to deploy infrastructure for product testing and supporting the needs of the business in addition to providing 24x7 support for our production environments with active customers via PagerDuty.
- Authored a comprehensive Ansible cloud security playbook and a parameterized provisioning script solution to configure RHEL and Ubuntu machines to meet internal IBM security standards, enable system logging to a QRadar machine for auditability, maintain separation of duties, and setup LDAP access so that privileged accounts (root) were not used to log in to the system for accountability reasons. This playbook is currently used on hundreds of Bluemix virtual machines and bare metal servers.
- Managed development and production systems using IBM Endpoint Manager (BigFix). This included writing IEM fixlets using both Bash scripts and BigFix Action Script, creating conditions to determine if a fixlet was applicable using Relevance language and writing several analyses to check the state of the system via command output. Security posture was checked using a database of vulnerabilities and safe package versions.

CERTIFICATIONS

- ISACA Cybersecurity Fundamentals Certification

May 2015

EDUCATION

PENN STATE ERIE, THE BEHREND COLLEGE

- Bachelor of Software Engineering,
with minors in Management Information Systems and Computer Science

Erie, Pennsylvania

June 2015