

Jerry Lin

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Overview

DevOps Engineer with diverse experience building code deployment pipelines, maintaining application infrastructure, and designing automation to support web applications located in on-premise and AWS datacenters.

EXPERIENCE

Surescripts, LLC – Raleigh, NC

May 2020-Present

DevOps Engineer

- Enhanced code deployment process by building Canary-style deployments into the shared Jenkins pipeline library and Ansible deployment playbooks with automated integration tests and rollbacks
- Deployed Hashicorp Vault Enterprise in a highly available configuration across multiple environments and collaborated with both Java and .NET development teams to integrate their applications
- Improved monitoring of Production environments by writing scheduled environment validation Ansible playbooks that create ServiceNow incidents upon validation failure with incident handling instructions
- Authored and consolidated new On-Call documentation across multiple Confluence spaces that reduced On-Call training time and improved accessibility to existing documentation

Automated Insights - a Stats Perform Company, Durham, NC

August 2019 – April 2020

DevOps Engineer

- Transformed a microservice based web application running on AWS into a standalone appliance using Helm, Packer, and K3s (a lightweight Kubernetes distribution), so that clients can perform an on-premise installation
- Enhanced Jenkins Pipeline Library by adding a feature to pause automated code deployments to production environments on specific dates
- Updated private Amazon Machine Images (AMIs) using Packer and Ansible so that they were built using the latest ECS-optimized AMIs based on Amazon Linux 2 and Ubuntu server 18.04
- Improved the manageability of Terraform plans by upgrading from using Terraform 0.11 to Terraform 0.12, standardizing the authentication methodology, and updating the READMEs

Applied Predictive Technologies – a Mastercard Company, Arlington, VA

August 2017 – July 2019

Senior DevOps QA Engineer

- Coordinated with both Operations and Development teams to build a new deployment pipeline for SQL CLR's to SQL Server 2017
- Addressed Java security vulnerabilities by writing test plans and verifying the automated upgrade of Java via Chef across Jenkins servers and ColdFusion servers
- Improved maintenance of Jenkins instances by adding a cleanup command to an in-house C# Jenkins job generation command line tool to remove deprecated or test-only jobs

TECHNOLOGY SUMMARY

Coding Languages:

- Proficient in: Shell Scripting, PowerShell, Python, Groovy, C#

Testing Tools: Selenium, NUnit

Configuration Management Tools: Terraform, Packer, Ansible, Helm

Automation Platforms: Jenkins, RedHat Ansible Tower

Artifact Management: JFrog Artifactory

SCM Tools: git

Monitoring Tools: Splunk, AWS CloudWatch

Databases: SQL Server, SQLExpress, Postgres

Systems: Windows Server, Ubuntu, RHEL, Amazon Linux

EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2013 - May 2017

- B.S. Biomedical Engineering, Minor in Scientific and Engineering Computing
- GPA: 4.0, Faculty Honors, Cooperative Plan