**Vattikuti Ramcharan**

**Email:** [**vramcharan3004@gmail.com**](mailto:vramcharan3004@gmail.com) ****

**Contact: (945)900-3713**

**AWS|GCP|SRE|DevSecOps|**

# Summary:

DevOps Engineer with 9+ Years of Professional experience in SRE, Kubernetes, Open Shift, MySQL, Jenkins, Git, Maven, Helm, Docker, ArgoCD & DevSecOps.

* **Certified Terraform, CKA & AWS.**
* **Experience with Agile based scrum Projects.**
* **Compelling expertise in Release management and production.**
* **Hands on experience with Octopus Deploy, ArgoCD, Urban Code Deploy.**
* Experience in DevOps, Build & Release and Configuration Management and Automation on Unix/Linux based System Administration.
* Experience using the Curam Intelligent Evidence Gathering (IEG2), and Curam Express Rules for Triage (CERT), Modeling, Customization.
* Experience in Java specific application deployment, tracing & debugging (J2EE).
* Strong experience with AWS Transport Layer security (TLS), in providing s3ecure transmissions with S3 storages, RDS, EC2 by using encrypt data at rest in the transit ingress.
* Worked on Kubernetes for producing High Availability to the cluster In MySQL using InnoDB& MariaDB.
* Hands-on experience with Kubernetes &EKS.
* Extensively worked on the Agile Scrum based projects.
* Familiar with Agile, ASAP & methodologies. Involved in end-to-end implementations, maintenance and support projects.
* Expertise in estimations, planning, design solutions, development, testing and deployment activities.
* Expertise in Jules Pipeline with scanning tools for.
* Worked on DevSecOps for scanning vulnerabilities using Clair & OSWAP.
* Hands-on experience with Infrastructure as Code, using CloudFormation and Terraform.
* Experience in automated testing, and CI/CD pipelines.
* Proficiency in Java and Python.
* Expertise in Cloud both on GCP & AWS.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **SCM Tools** | GIT, Sub Version. |
| **Build Tools** | MAVEN |
| **CI Tools** | Jenkins |
| **DevOps Tools** | Git Hub Actions, Docker, Jules Pipeline, Jenkins, UCD, PCF Kubernetes, Open shift, Maven Helm, Sonar Scan, Argo CD, Octopus Deploy, Spinnaker Terraform, Prometheus, Elasticsearch, Kibana, Clair, Nexus, EKS, GKE, LDAP, Jira, Atlassian Suite. |
| **Cloud** | GCP, AWS, CDK, Cloud Formation, AWS TLS, open SSL, EKS, GKE. |
| **Databases** | MySQL, MinIO, MariaDB, MongoDB, MariaDB Galleria, Postgres, InnoDB. SQL. |
| **Languages** | Java, Node JS, Groovy. |

**Projects Summary:**

**Ebay, Austin, TX Sep 2022 – Apr 2023**

**Role: Sr. DevOps AWS Engineer/SRE/ DevSecOps Engineer**

**Responsibilities**

* Developed Continuous Deployment pipeline by integrating Jenkins with Terraform, Developed Modules in Terraform to trigger the infrastructure.
* Designed the data models to use in AWS Lambda applications which are aimed to do complex analysis
* Worked extensively on DevSecOps in cryptographic protocol by TLS.
* Implemented AWS TLS for S3, EDS & EC2 for encryption data at rest and in transit.
* Experience In deploying efficient, reliable & aligned deployments using UrbanCode Deploy.
* Responsible for Version control Integration, managing multiple environments for testing and production using UrbanCode Deploy.
* Reported Analytics Using UrbanCode deploy for logs, errors to optimize deployment problems.
* Managing security groups on AWS, focusing on high-availability, fault tolerance, and auto-scaling using Terraform.
* Excellent hands-on experience in installation, configuration, and troubleshooting the issues and performance tunning of WebLogic/Apache and Tomcat.
* Implemented authentication to servers for the Trustworthiness of open SSL.
* Installed and configured a private Docker Registry, authored Docker files to run apps in containerized environments and used Kubernetes to deploy scale, balance the load and manage Docker containers with multiple namespace ids. Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool which uses a file configured in YAML format. Used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as Pods.
* Involved in setting up Kubernetes Clusters for running microservices and pushed microservices into production with Kubernetes backed Infrastructure. Development of automation of Kubernetes clusters via playbooks in Ansible.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack Monitoring using Ansible playbooks and has integrated Ansible with Run deck and managed and developed different aspects of Jenkins to act as an administrator as well as wrote GROOVY scripts in order to make the configuration management system more effective.
* Worked on Docker and Ansible in build automation pipeline and Continuous Deployment of code using Jenkins and wrote
* Playbooks to automate Ansible servers using YAML scripting and Developed an Ansible role for Zabbix-agent which will be integrated into the to the CI/CD pipeline with groovy scripting.
* Responsible for Design Sessions, POC’s, Blueprint, and artifacts.
* Installation and configuration of Web Services like Apache, Tomcat.
* Migrated all the application certificates from SSL to TLS as per the compliance requirements.
* Worked on different PKI(Public Key Infrastructure issues like message signing, signature validation, message encryption and decryption etc.
* Participated in root cause analysis like gathering the thread dumps for service slowness, failures and provide solutions.
* Worked on infrastructure project to scale the web services in order to on-board new clients on the platform.

**Applications:** UCD,IEG2,CERT, K8s, Ansible, AWS TLS, Terraform, Docker.

**Rakuten, Tokyo, Japan Sep 2021 – Sep 2022**

**Role: Lead DevOps, SRE**

.

# Responsibilities

* Responsible for Design Sessions, POC’s, Blueprint, and artifacts.
* Responsible for defining scope and implementing the same with given targeted time.
* Preparing Design Documents (Technical/Functional).
* Build & Deployment.
* Designing the relevant data flows in within the Data Center and among Datacenters.
* Testing using Functional and manual to ensure strong & eventual consistency.
* Creating backups for the Nodes and within the cluster and among cluster in case of shutdown, Restart, Non- Graceful, Rolling Restart & scaling out.
* Experience in Open SSL http/2 to improve performance in web application for load using TLS.
* Worked on Jenkins with groovy Octopus Deploy, For automating deployments in testing & production.
* Responsible for PCF cloud deployment and scaling applications as a part of build and deployment.
* Responsible for MariaDB 's reactive connector, R2DBC. Just two applications (batch-processing and Kafka- connector) are using MariaDB JDBC connectivity.
* Executing jobs with git hub actions.
* Continuous deployment using Argo CD, Octopus deploy for the applications in EKS clusters.
* Testing & debugging Java application using various testing techniques like unit, Integration and system testing to ensure everything works before deploying to production.
* Implementation of Jules by render with jinja2 templates.
* The post also has a list of tags, and the templates provided will generate a list of all the published tags and build index pages for all of them.
* Adding tags and templates for Jules pipeline to publish tags and build index pages.
* Scanning for vulnerabilities in the manifest files for checking the images vulnerabilities in the docker images cloud-based infrastructure to prevent outages.
* Generation of scanning for vulnerability report for docker images using sonar scan & Jfrog.
* Analyzing the reports using the DevSecOps using Clair & Sonar Scan.
* Setting up cluster and deploying kiba environment.
* Implementation of terraform scripts.
* Implemented document management to integrate with the DevOps Compliance for external data sources and systems for third party verifications to validate information in automated process.
* Managed configuration settings and parameters for properties files and environment configurations within int curam suite.
* Responsible for defining & creation of private helm chart so to create private image and to run in the K8s cluster with OpenShift.
* Implementation helm charts to deploy the application & to port forward the services form K8s.
* Responsible for implementing Jump nodes, VPC & instances for CLI of GKE in GCP.
* Responsible for CI with Jenkins on both staging and Release environment.
* Building, Release automation framework designing, Continuous Integration and Continuous Delivery, Release planning, procedures, scripting automation.
* Extensively worked on SRE dashboards for Metrics visualization, alerting and incident management,
* Error Tracking & logging, Performance trends, Incident response playbooks.
* Implemented ArgoCD for GitOps Implementation for K8’s Deployments.
* Expertly worked on UCD for automation of deployment process & packaging the applications for deployment in K8’s Environment.
* Worked as SRE DevOps with CI/CD to build status, test coverage, deployment frequency and deployment success analysis.
* Implemented automated alerts and incident response with SRE dashboards for minimizing issues and anomalies.
* Extensively worked with SRE dashboard for infrastructure application performance monitoring to identify bottlenecks and to attain end user experience without any delayed frequency.
* Used UCD for Scaling the deployments of applications.
* Planned release schedules with agile methodology and coordinated releases with engineering and SQA for timely delivery.
* Scaling up and scaling down the pods in Kubernetes to test the functionality in the yaml file.
* Experience in automating rollouts and rollbacks with role binding properties.
* Worked extensively on Kubernetes to archive Automated Scheduling, Horizontal Scaling and Load Balancing, Self-Healing Capabilities.
* Networking with GCP for Virtual Private Cloud (VPC), Cloud Load Balancing, Cloud Armor, Cloud CDN, Cloud NAT, Cloud Interconnect, Cloud VPN, Cloud DNS, Network Service Tiers.
* Implementation multi cloud in terraform for Provisioning infrastructure across multiple clouds increases fault-tolerance, allowing for more graceful recovery from cloud provider outages.
* Proficiency in developing databases.
* Development of applications with Amazon Lambda and Elastic Beanstalk.
* Proficiency in developing, deploying, and debugging cloud-based applications using GCP.
* Documentation of the debug code modules on GCP.

**Applications:** GCP, K8s,GKE, ArgoCD, UCD, Jenkins, Jules.

**Wells Fargo, Charlotte, NC Sep 2018 – Aug 2021**

**Sr. Devops Engineer**

# Responsibilities

* Infrastructure migration methodologies and techniques including mass application movements into the cloud including implementation of Azure.
* Setting up the new build & Deploy environment for various applications in EKS environment with open shift.
* Creating, building Docker images, containers. Writing Docker file to create custom images and issue troubleshooting. Implemented Microservices using Docker.
* Implementation of Jenkins pipeline job configurations and access permissions for various groups and issue troubleshooting for pipeline jobs
* Automated Disaster recovery for polled cluster disaster recovery with ArgoCD.
* Integration with AWS services for EKS clusters using ArgoCD, over Cross plane integration.
* Implemented continuous integration using Jenkins.
* Used Hu  
  ndson (Jenkins) for Continuous Integration and deployment in Tomcat.
* Installed number of plugins in Jenkins for project requirement.
* Automation of build process (Build Automation) using Jenkins, Maven and Git.
* Involved in installing the plugins and setting of the jobs/nodes and configure the jobs to automate the deployment process.
* Implemented CDK for Terraform leverages concepts and libraries from the [Development Kit](https://aws.amazon.com/cdk/) to translate your code into infrastructure configuration files for Terraform.
* Used ArgoCD for Deployments in Canary & blue green.
* Implemented and version control using controlled deployments with ArgoCD
* Participated in the release cycle of the product, which involves environments like Development, QA and UAT. Wrote build.xml for applications using Ant Projects to Maven build Projects. Developing Maven scripts based on the requirements.
* Configured application servers like Tomcat to deploy the code.
* Involved in automate the application deployment in the cloud using Docker technology with Elastic Container Service (ECS).
* Involved in automate the deployments in various Environments by using Chef.

**Applications:** AWS, EKS K8s, Git, Jenkins, Terraform Docker, Ansible.

**Premiere Global Services, IND Sep 2016 – Aug 2018**

**DevOps Engineer**

# Responsibilities / Deliverables:

* + Creating the automated build and deployment process for application.
  + Developed automation framework for Application Deployments to cloud environments.
  + Used Maven as build tool on Java projects for the development of build artifacts on the source code.
  + Created Docker files and built images and push to the Docker private registry.
  + Managed Amazon Web Services like EC2, EKS through AWS Console.
  + Creating new jobs in Jenkins and managing the build related issues.
  + Implemented ArgoCD for Deployments in Canary.
  + Coordinating with the Development team to fix the Build related issues.
  + Set up and maintained Development, QA, Pre-Production, and Production environments.
  + Creating branches, tagging, and merging the source code between different branches in Git.
  + Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT.
  + Creating JAR and WAR files using Maven.
  + Automated the builds and deployment of java projects using Maven and Jenkins.
  + Build the CI/CD pipeline for Java Projects.
  + Jenkins is used for continuous integration and build automated jobs.
  + Creating and building Docker images, containers and writing Docker file to create custom images and issue troubleshooting and Implemented Microservices using Docker.
  + Involved in automate the application deployment in the cloud using Docker technology with Elastic Container Service (ECS).
  + Involved in automate the deployments in various Environments by using Jenkins and managing successful deployment to different environments using CI/CD methodologies.
  + Terminating /Stopping/Creating EC2 instances using AWS Console.
  + Configure Elastic Cloud Computing (EC2) instances with AMI Linux and Windows OS.
  + Hands on experience in EKS, AWS Lambada, EC2, VPC, Subnets, Routing tables, Internet gateways, IAM, VPC peering, S3, ELB, Cloud Formation, Security Groups, Cloud Watch, on AWS.
  + Creating new EBS volumes and attaching same to EC2 instance when needed.
  + EKS, EBS Volumes, EIPs, Snapshots, AMI’s. Creating AMI images from existing instances and copy them to different regions / availability zones.
  + Uploading data, Snapshots and EBS volumes in S3 storage, while creating EC2 Instance.
  + Hands on experience with Microservices for ease deployment and scalability

**Applications:** AWS, EKS, K8s, Git, Jenkins, Maven, Docker, Ansible.

**HCL, IND Jun 2014 – Sep 2016**

**Software DevOps Engineer**

# Responsibilities

* Involved in projects that move to production and work closely with the Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes
* Experienced in authoring pom.xml files, performing releases with the Maven release plugin, and managing artifacts in Sona type NEXUS repository.
* Implemented automation of Builds and Release management using Jenkins to achieve CI/CD in a project.
* Troubleshoot the build issue during the Jenkins build process and resolved system issues and inconsistencies in coordination with quality assurance and engineering teams.
* Worked with Jenkins API's to know various things like build status, count of builds, Git commit version used by Jenkins builds etc.
* Solid experience in developing and deploying the applications on Tomcat Apache servers and maintaining Load balancing, High availability and Failover.
* Written Bash shell scripts for getting information about various Linux servers and prepared Ruby codes, programming of web applications and testing services on daily basis.
* Installed and configured Jenkins for continuous integration and performed continuous deployments
* Creating the build script using the ANT as build tool, for Java and .Net web applications.
* Java/J2ee Coding and Implementation of Spring/Hibernate framework as per the DOL Standards
* Worked on JIRA for tracking and updating the JIRA tickets and per assigned and Maintained JIRA Administration/User documentation in Confluence.
* Organized and Coordinated Product Releases, work closely with product development, QA, Support across global locations to ensure successful releases.

# 

# EDUCATION

BSC **in Computer Engineering** -2014 Acharya Nagarjuna University, India.

Writeup:

RDBMS: SQL

* Provided Leverage IaC with terraform for configuring RDBMS instances to reproducible Database setup.
* CI/CD integrated SQL scripts and made changes to database into application deployment pipeline and synchronized the code Changes for version control and review and testing.
* Configured security setting performance to chef for automating configuration management for consistency.
* For backup and recovery scheduled test restoration process and ensuring HA and data integrity.

Curam Intelligent Evidence Gathering:

* Implemented document management to integrate with the DevOps Compliance for external data sources and systems for third party verifications to validate information in automated process.
* Managed configuration settings and parameters for properties files and environment configurations within int curam suite.
* Reported analytics of evidence gathering process and performance metrics.
* Identified bottlenecks and reported with evidence as a part of process improvement.

Octopus deploy:

* Implemented and managed OD infra with setting up server scaling, and HA.
* Deployed OD to CI/CD pipeline and automated deployments.
* Worked with Java development team to execute deployment, configure and troubleshooting the deployment.
* Release management while orchestrating OD by cross functional team with dev -ops -QA to execute releases and execute release strategies for managing pipelines
* Configured Octopus deploy for setting up variables and transformation in release-dev-Prod environments.
* Automated OD while maintain deployment templates, scripts & automation workflows.
* Provides IaC and SaaS to maintaining & manage servers, Databases and networking components for deployment environment.