**Sravan**

 **AWS Devops Engineer**

**Mobile: 510-854-1314**

**Professional Summary:**

* **6** years of experience in IT industry comprising of DevOps AWS Engineer and Build and Release Engineer which includes Software Configuration Management (SCM), Build/Release Management, Continuous Integration and Continuous Delivery using different tools
* Experienced in Configuring and Deploying infrastructure and applications into cloud using AWS resources such as EC2 instances, S3, RDS, EBS, VPC, SNS, IAM policies, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Ops Work, Security Groups focusing on fault tolerance and high availability.
* In-depth understanding of Software Configuration Management (SCM) processes which include compiling, packaging and deploying of various applications.
* Good experience with Continuous Integration and Deployment methodologies using Jenkins, Sonarqube and Gitlab
* Experience in using version control systems like Subversion (SVN) and different flavors of GIT.
* Experience working with Issues during production like CPU resource utilization,Application performance and Code Logics
* Good experience in Object Oriented Design and Programming concepts in Python
* Good Python scripting skills for building the Machine learning models,Data Science and analysis
* Good scripting skills for maintaining, developing shell and python scripts and troubleshooting the C, Bourne and Perl scripts.
* Experience in working with different build automation tools like Jenkins and Maven to achieve End-to-End Automation.
* Worked with IAM service creating new IAM users & groups, defining roles and policies and Identity providers.
* Utilized AWS Cloud watch to monitor environment for operational & performance metrics during load testing.
* Extensively used Docker for virtualization, Ship, Run and Deploy the application securely for fasten the Build/Release Engineering.
* Extensively working on OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Experience in creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch using Docker file.
* Experienced in maintaining Docker containers with Kubernetes to automate the Docker container maintenance by using it and worked on with REST API.
* Managed AWS IaC using Terraform
* Knowledge in gathering requirements from various teams Dev, QA, Ops etc. for automating process and improving agility in development process.
* Created dashboards for log analysis and visualization using Prometheus and Grafana
* Leveraged Monitoring tools like Cloudwatch, Splunk and perform log analysis by creating dashboards and performance analysis during production
* Experience supporting 24x7 production and providing on-call & weekend support.
* Experienced in Trouble shooting, Backup and Recovery.

**Technical Skills:**

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| --- | --- |
| Cloud Environment | AWS, EKS, EC2, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM,SES,SNS,Cloudtrail |
| Operating Systems | Linux (Red Hat, CENTOS & SUSE), Ubuntu, Windows. |
| Scripting | Shell Scripting (Bash), Python and Powershell. |
| Languages  | Python,Java |
| Version Control Tools | GIT, GITHUB, Gitlab |
| Automation & Configuration Tools |  Jenkins, Docker, Terraform. |
| Orchestration Tools | Kubernetes |
| Build Tools | Maven,Sonarqube |
| Bug Tracking Tools |  JIRA. |

**Professional Experience:**

**Ericsson, Dallas,Texas July 2022- Present**

**Software Engineer**

**Responsibilities:**

* Participate in lead development of requirements, user story development, use cases and test cases.
* Responsible for using AWS Console and AWS Command Line Interface for deploying and operating AWS services specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation, ECS, EKS and Cloud Watch.
* Worked on development projects of automation, tools like healthcheck of overall operating system, detection and auto resolution of status of vimzones.
* Responsible for creating docker images of the automated tools in production environment and checking in to git repositories as well as deploying them on dockerized production systems.
* Responsible for scheduling automated data collection, performance metrics collection from production environment and leveraging them for application development such as creating machine learning models.
* After data collection and cleaning, leveraged the data to build an AI/ML pipeline for future forecasting. This pipeline includes early detection of anomalies using an unsupervised algorithm like the k-means classifier and predicting future values of performance metrics using the FB Prophet time-series forecaster.
* Leveraged different python libraries such as plotly UI for data visualization and PowerBI for data analysis.
* Continuously monitor performance metrics for containerized pods using Prometheus and report any failures to upper management promptly.
* Along with development of future forecasting AI/ML tool, also leveraged the data collection to develop a AI/ML using XgBoost to detect long running queries and maximum DB connections in postgres database with an ability to prevent future deadlock failures.
* Developed an utility tool to send notification to an operations engineer stating the overall health of production system leveraging AWS SES services.
* Creation of automation scripts to have the sanity & regression testing robot framework
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Used Kubernetes to manage containerized applications using nodes, config maps, services and deployed application containers as a Pod's.
* Worked with Splunk for Log monitoring and dashboard generation during production
* Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Worked with Docker for convenient environment setup for development and testing.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and Gitlab
* Used CloudFormation Templates written in YAML to deploy infrastructure in the AWS cloud.
* Troubleshooting and monitoring of Third-party applications using Splunk and Cloud Watch in the Amazon Web Services (AWS) environment

**AT&T, Dallas,Texas Aug 2021- Jul 2022**

**Software Engineer**

**Responsibilities:**

* Participate in lead development of requirements, user story development, use cases and
* test cases.
* Hands-on experience implementing PaaS, IaaS, SaaS style delivery models inside the
* Enterprise (Data center) and in Public Cloud like AWS, and Kubernetes etc.
* Responsible for using AWS Console and AWS Command Line Interface for deploying and
* operating AWS services specifically VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation, ECS, EKS
* and Cloud Watch.
* Developed Cloud Formation templates to Automate the AWS Services VPC, Bastion hosts,
* Auto scaling and load balancing, Cloud Watch Alarms, ECS Cluster, Elastic Beanstalk, AWS Backup Resources.
* Expertise in using built tools like Maven and ANT for the building of deployable artifacts
* Hands-on experience setting up Kubernetes (k8s) Clusters for running micro services.
* Took several micro services into production with Kubernetes backed Infrastructure.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Used Kubernetes to manage containerized applications using nodes, config maps, services and deployed application containers as a Pod
* Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Experience in using Jenkins pipelines to drive all micro services builds out to the Docker
* registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Worked with Docker for convenient environment setup for development and testing.
* Implemented build stage to build the micro service and push the Docker container image to
* the private Docker registry.

**Thomson Reuters, Eagan, MN Jan 2021- Jul 2021**

**Software Engineer**

**Responsibilities:**

* Migrated legacy applications from On-premises to AWS cloud environment.
* Leveraged Jenkins for build and deployment automation for Terraform scripts
* Provisioned EC2 instances using Terraform and Ansible playbooks
* Used Docker for packaging applications and designed the entire cycle of application development and used Virtualized Platforms for Deployment of containerization of multiple apps.
* Worked on integration of Terraform migrate legacy and Monolithic systems to AWS
* Designed, implemented and maintained Splunk log collection solution for the performance Engineering.
* Installed and managed monitoring tools like Splunk, Analyzing and reviewing the system performance tuning and network configurations, CPU utilization, memory profiles, disk utilization, network connectivity, system log files.
* Troubleshooting and monitoring of Third-party applications using Splunk and Cloud Watch in the Amazon Web Services (AWS) environment.
* Configured and Deployed application packages on to the Apache Tomcat, WebLogic and JBoss server.
* Coordinated with software development teams and QA teams.
* Involved in writing SQL queries to implement the related changes and debugged the build errors using SQL queries to make sure Database is not corrupted.
* Developed custom OpenShift templates to deploy the applications and to create the OpenShift objects built, deployment on figs, services, routes and persistent volumes.
* Automated the build and release management process including monitoring changes between releases. Documented the entire build and release process and provided support.

**InfoTech - Hyderabad, India Jan 2018 – Dec 2019**

**Software Engneer/Build & Release Management**

**Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems.
* Used Jenkins and implemented CI/CD pipeline using plugins like conditional build step, deployed to Git.
* Configured various jobs in Jenkins for deployment of Python based applications and running test suites using Robot Framework
* Configured Git with Jenkins and scheduled jobs using POLL SCM option. Responsible for design and maintenance of the GIT Repositories, and the access control strategies.
* Developed Python and Shell scripts for automation of the build and release process. Wrote automation scripts in shell and Python to enhance the CI-CD pipeline.
* Managed MYSQL Server, performed CRUD operations, stored procedures and triggers to support the project.
* Performed application server builds in AWS EC2 environment and monitoring them using cloud watch.
* Automated Regular AWS tasks like snapshots creation using python scripts.
* Building and monitoring in the project has been done continuously with a CI Tools like Jenkins.
* Monitoring AWS Instances regularly using ops view and New Relic tools.
* Created post commit and pre-push hooks using Python in SVN and GIT repos. Setting up the
* SVN and GIT repos for Jenkins build jobs.
* Created multiple ANT, MAVEN, Shell scripts for build automation and deployment.
* Used Jenkins AWS Code Deploy plugin to deploy to AWS

**Education:**

**1.Bachelors in Computer Science, ANNA University ,2018**

**2.MASTERS In Computer Science, NJIT,USA,2021**