**RESUME**

**DEVOPS AWS SRE**

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**PROFESSIONAL SUMMARY:**

* Having 6years of IT Experience and overall, 5+years of experience with Infrastructure cloud responsible for administration, Site Reliability Engineer (SRE), Automation and operation across various platforms Networking, Linux, & Windows on AWS with DevOps.

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| **PROFESSIONAL SYNOPSIS:** |

* Experience in Linux System Administration, Site Reliability Engineer (SRE), Build Engineering & Release Management process, including end-to-end code configuration, building binaries & deployments and entire life cycle model in Enterprise Applications.
* Experience with Jenkins, Hudson as Continuous Integration / Continuous Deployment Tool and strong expertise with Maven Build Frameworks.
* Involved in ARTIFACTORY Repository Managers for MAVEN.
* Hands on experience in AWS provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB, RDS, Redshift, IAM, Route53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups.
* Skilled in monitoring servers using Grafana, Cloud watch.
* Monitor, build and deploy software releases and provide support for production deployments.
* Configured JENKINS Monitor, List and Build views to displays the status and progress of selected jobs with build version information.
* Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Experience with Configuration Management automation tool Ansible and has worked on integrating Ansible YAML Scripts.
* Configured and Deployed application packages on to the Apache Tomcat server. Coordinated with software development teams and QA teams.
* Experience of working with the release and deployment of large-scale Java/J2EE Web applications.
* Ability in development and execution of Shell Scripts.
* Worked with different Bug tracking tools like JIRA.
* Used Kubernetes to deploy scale, load balance, scale and manage docker containers with multiple 2namesspaced versions.
* Knowledge on Real User Monitoring solutions like New Relic..
* Ability to quickly understand, learn and implement the new system design, data models in a professional work environment.

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| Work Experience: |

* Worked as a Sr. Devops Engineer in Accenture Solution Private Ltd from December 2020 to November 2022.
* Worked as a Software Engineer in TCS from July 2016 to May 2020

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| **Technical Skills:** |

Operating Systems : LINUX and Windows

Version Control Tools : GIT

Build Tools : Maven

CI/CD Tools : Jenkins

Configuration Management Tools : Ansible

Containerization Tools : Docker, Kubernetes, ECS

Proxy server : Nginx

Programming/Scripting : Shell, Groovy

Languages : SQL

Repository Managers : Nexus and Artifactory

Logging & Monitoring Tools : Elasticsearch, Grafana and Cloud watch

Cloud Technologies : AWS

Messaging Services  **:** Amazon SNS

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| **Work Experience:** |

**Project 1**

**Client: HSBC**

**Duration: Dec 2020 – till date**

**Role : DevOps SRE AWS Engineer**

**Roles and Responsibilities:**

* Provide support for Continuous Development &responsible for maintaining Central repositories like setup projects, giving permissions, creating branches and protecting them as per the need and helping with the merge requests in **GitHub.**
* Setup Automated Build system using Jenkins for Windows/Linux environment & integrate with JfrogArtifactory
* Defining Maven Build configurations like Pom.xml, settings.xml & setting up Module based Builds
* Setup & Manage Jenkins Master Slave configuration for all types of Builds including Developer Builds, Daily Builds, Release Builds & Support Builds
* Co-work with the globally distributed Development team to fix the Build related issues.
* Development of shell scripts for automation of existing manual processes.
* Analyzing application logs in order to determine the possible cause of issues and reporting errors directly to the dev team.
* Involved in Application support end to end and troubleshooting the issues reported by QA team.
* Develop **Docker file** to Create **Docker Images** for Base Image and Application deployments.
* Setup & Manage Docker-Swarm cluster for Dev & QA Deployments
* Define Docker-Compose configuration
* Managed Amazon web services like EC2, S3 Bucket, RDS and EBS Auto Scaling through AWS Console.
* Setting EC2 instances for client level applications like Apache.
* Configuring S3 Bucket permissions, versioning, and logging.
* Using Ansible node configuration to setup the DEV, QA and UAT environments for every sprint.
* Creating custom Docker Images using Docker file.
* Installed Docker Registry for local upload and download of Docker images and

even from Docker hub.

* Should undertake the responsibility on working on the escalations and many critical tasks in the project.
* I installed and configuration Ansible, SonarQube, Jenkins, Tomcat, Docker
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, Git with Dev/Test/Prod Branching Model for weekly releases.
* Create and establish build process using Maven to perform builds efficiently and deployment of the application using Tomcat Application Server.
* Deploying the applications by using Ansible playbooks.

**Project Name 2:**RIT

**Client:** Regeneron

**Duration:Frb2019toMay 2020**

**Tools Used:**AWS, Git, Maven, Jenkins,Ngnix, Docker, Kubernetes, Terraform,Ansible, Tomcat.

**Roles and Responsibilities:**

* Create, Manage, Administer Kubernetes clusters deployed in AWS using Terraform
* Map appropriate user access to the EKS cluster using IAM roles and RBAC policies
* Upgrade the node groupsattached to the cluster whenever new Ami is available to avoid security risks
* Setup cluster autoscaler to automatically spin up new nodes to accommodate the workloads
* Install CRD’s to the cluster like flux, helm operator to incorporate gitops
* Delegate cross account IAM roles using sts service in aws
* Setup VPC Endpoints (private links) between critical services like DB’s etc
* Create IRSA for the Kubernetes deployments in order for the pods to access aws services
* Installing Ingress controllers like a lb load balancer controller and Nginx ingress controller
* Troubleshooting issues related to endpoint unavailability, common http errors
* Whitelist the IAM policies flagged by the IAM Access analyzer using the in-house tool like port monitor
* Writing custom scripts to be used in the pipeline to assume roles etc
* Whitelist IAM roles in S3 buckets, KMS keys etc
* Encrypt s3 buckets, Dynamo DB tables, kinesis firehose streams with KMS keys
* Upgrade the Kubernetes clusters from one version to another
* Setup appropriate S3 buckets, bucket policies, Secrets, private links to new teams in E2
* Troubleshooting CICD build issues by scanning through the logs
* Troubleshooting the issues related to Kubernetes application deployment
* Ensuring the CI/CD pipeline is moving smooth and troubleshooting issues if found
* Helping developers in writing custom Docker file
* Setting up liveliness and readiness probes for applications
* Working on Jira tickets pushed onto the team Queue and resolving within SLA
* Using Grafana to analyze the health of pods, services in cluster
* Ensuring the Gitops flow is working as expected and troubleshooting any issues with respect to the final helmrelease that gets applied to the cluster
* Work on stories assigned as part of sprint
* Passing on the knowledge to the new team members about the infrastructure and technologies used.

**Project 3**

**Project Name:** SCPAY

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| **Client** | **:** | SCB |
| **Role** | **:** | DevOps Engineer |
| **Duration** | **:** | May 2017 to Jan 2019 |
| **Tools** | **:** | AWS, Git, Maven, Nginx, Jenkins, Docker, Kubernetes, shell scripting |

**Roles and Responsibilities:**

* Helped individual teams to set up their repositories in git hub and maintain their code and help them setting up jobs which can make use of CI/CD environment.
* Used Maven as build tool for java-based projects.
* Have experience of working with Docker- docker hub, pulling images from docker hub, running containers based on an image.
* Setup full CI/CD pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Worked on Designing and Deploying AWS Solutions using EC2, S3, and EBS, Elastic Load balancer (ELB), auto-scaling groups and OpsWorks.
* Configured & deployed Java applications on Amazon Web Services (AWS) for a multitude of applications utilizing the AWS stack, cloud formation.
* Worked with IAM to manage the users and groups using IAM by assigning individual policies and roles.
* Created network architecture on AWS VPC, subnets, Internet Gateway, Route Table and NAT Setup
* Responsible for the Plug-in Management, User Management, Build/Deploy Pipeline Setup and End-End Job Setup of all the projects.
* Maintain track of different releases that are being carried over in different environments.
* Worked on CI/CD tools Jenkins and GIT version control system for continuous smooth code release process.
* Developed build & deployment scripts using MAVEN. Automated the process using plugins available Jenkins and move from one environment to other throughout the build pipeline.
* Date wise Daily keeping track all the Scripts.
* Integrated Jenkins with GitHub private repositories, build Automation tools (Maven and Ant), and Artifact repository for pushing successful build code.

**Project 4**

Role : Salesforce Administrator

Duration : July 2016 to April 2017

Project Type : Testing and Support

ROLES AND RESPONSIBILITIES:

* Creating requirements and adding requirements to test cases in test plan.
* Gathering the requirements and analyzing for feasibility.
* Working in Configuration as well as Customization requirements.
* Creating the objects, page layouts, and record types and assigning the page layouts to appropriate record types as per the requirement.
* Forming validation rules to maintain the quality of data.
* Developing visual force pages, Apex classes and test classes to implement the customizations needed.
* Creating workflow rules to trigger alerts or field updates, automated approval processes.
* Imposing security through profile level settings, and opening up with the help of permission sets, sharing rules.
* Enforcing security with the help of Organization Wide Defaults, profiles and opening up access to the required users with the help of sharing rules, Permission sets.
* Importing data using data loader or import wizard.
* Responsible for writing Apex Triggers, Controller Classes, Apex Classes, Visual force Pages.
* Created page layouts, search layouts to organize fields, custom links, related lists, and other components on a record detail and edit pages.
* Worked on Lightning Process Builder to consolidate existing workflow rules.
* Generated various reports and dashboards in lightning for Sales performance tracking.

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| **Educational Qualifications**: |

* Bachelor of Engineering & Technology (ECE) from JPNCE in 2016

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| **Declaration:** |

I hereby declare that the above-mentioned information is correct up to my knowledge.

**Place:** Bangalore.

**Date: Soumya M**