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**Summary of Experience:**

• Over **12+** years of IT experience as **DevOps Engineer, Build & Release Engineer** and System Admin worked on **Ansible, Chef, Nagios, GIT, Jenkins, AWS, Terraform, Atlassian Stack(JIRA/Confluence)** and **Mainframes**

• Experience as a Build and Release Engineer in automating, building, deploying and releasing of code from one environment to other environment

• Experience with **AWS Cloud platform** and its features which includes **EC2, VPC, ELB, SNS, RDS, Kinesis, Lambda, Route53, Cloud Watch, Cloud Formation, CloudFront, Auto scaling, IAM, S3 and Glacier**

• Worked on **Jenkins** for continuous integration for all builds and deployments

• Prioritized the tasks and assigned the work to corresponding team and ensure the end-users continue with their work smoothly without any issues

• Application deployments & environment configuration using **Ansible, Chef**

• Good Knowledge of **Bash, YAML**

• Extensively worked on Jenkins for continuous integration and for End-to-End automation for all Build and deployments

• Excellent troubleshooting and debugging skills

• Experience using **Terraform** for Server Provisioning

• Familiar with project management tools **JIRA** and **Confluence**

• Prepared prototype for performing **CRUD** operations in Python with PostgreSQL9.6 using **psycopg2** adapter

• Expertise in administering and supporting the **version control** tools including **GIT, Endevor** in **UNIX** and **Mainframe** environments

• Expertise in scripting Cloud formation templates to help automate and manage AWS Deployments

• Managed Docker orchestration and Docker containerization using Kubernetes

• Automated containerized deployments of the application into Docker containers thus allowing access to the application at multiple-test sites

• Experience in Linux administration activities including network based installation, RAID, LVMs, Disk quotas, configuration of DHCP, DNS, NTP, iptables, User and Group Administration, Nagios, proxy server

• Responsible for migration activities that includes migrating COBOL code to JAVA and DB2 data to ORACLE

• Good Interaction with developers, managers, team members to coordinate job tasks and strong commitment to work

**Technical Skills:**

**Version Control Tools :** GIT, Bitbucket, GitLab

**Continuous Integration Tools :** Jenkins**,** Bamboo

**Build Tools :** Ant, Maven

**Configuration Management Tools :** Ansible, Chef, AWS Cloud Formation

**Containerization Technologies :** Docker, Kubernetes

**Programming Languages :** Python, COBOL, JCL

**Scripting Languages :** Shell

**Data Serialization Language :** YAML, JSON

**Databases :** Oracle 11g/12c, MySQL, DB2, PostgreSQL

**Application Servers :** WebSphere, Tomcat

**Web Servers :** Nginx, Apache2

**Atlassian Toolset :** JIRA, Confluence

**Application Security :** SSL, LDAP

**Cloud Platform :** Amazon Web Services [**AWS**], Knowledge of Google Cloud Platform**[GCP]**

**Educational Qualification:**

**Bachelor of Technology in Computer Science & Engineering**

Jawaharlal Nehru Technological University, India

**Certifications:**

Certified AWS ASA (Associate Solution Architect) - Validation Number: **BZG3PL7CSNF1QXCM**

**Work Experience:**

**Title: AWS Devops Engineer / Cloud Engineer / Data Engineer**

Client**: CapitalOne, McLean, VA Nov’2019 – Dec’2023   
Key Responsibilities:**

● Design and develop automation workflows, conducting reviews to make sure work is rigorously designed, elegantly coded, effectively tuned for platform performance and assessing the overall quality of delivered components

● Prepared infrastructure scripts to launch **Kinesis** Streams, postgresSQL, RDS in QA/Prod environments using AWS Cloudformation templates

● Worked on setting up **Serverless** End to End One Pipeline set up for running BATCH Jobs associated with Secure Guardian Vulnerabilities(**Container, Checkmarx, WhiteSource, Infrastructure, Config Compliance** etc.)

● Worked on setting up **Dynamic Tagging, Launching the Infrastructure** in **Terraform** to set up tags to AWS Resources to ensure we save resource consumption during non-peak hours

● Worked on **ETB** for Aurora PostgreSQL End Of Life Remediation - Update DB Parameter Groups, modify cluster, and DB Engine Version to **14+**

● Worked on updating **CURL** Calls to **PYTHON** Calls to ensure those are working properly on top of a container

● Designed **CI/CD** pipelines to automate the **EMR/EC2** Rehydration process for list of **Python** and **Terraform** scripts

● Worked on remediating **Container**, **Infrastructure** Vulnerabilities, **OSS** Plans, Static Plans and **AMI** Rehydrations to ensure the applications are securely accessed. Performed Docker Image scans to ensure no vulnerabilities detected

● Performed **Deployment/Rehydration** for list of release labels which need Docker Image Updates

● Updated Security groups, Subnets and VPC related information to existing pipeline process and make sure that the stack creation is in the corresponding region

● Authored automated **shell scripts** and groovy scripting to automate infrastructure deletion using **CICD** pipeline whenever the functional test fails after **infrastructure** deployment

● Work on various AWS Services which include **EC2**, **S3**, **Lambda**, **Kinesis**, **RDS, EMR, Cloudformation** for JIGSAW data pipeline process

● Worked on setting up NGINX Controller on **Kubernetes** Clusters

● Worked on **Kubernetes** Storage - setting up PV and PVC Volumes

● Worked on deploying a Docker App to AWS using Elastic Container Service(**ECS**)

● Worked on setting up **CI/CD** Pipeline process using **Ansible**, GIT and Jenkins

● Worked on monthly dataset runs for **USCard**, **CAN** Card and **COAF**(CapitalOne AutoFinance) and generate IRIS report for the same and share it to DataQuality Team for verification

● Provision infrastructure using **Cloudformation** templates for launching Kinesis Streams, **RDS** Postgres Database in QA, Prod, created IAM Roles and Policies

● Worked on deploying a **Docker** based Application to AWS using **Elastic Container Service** (**ECS**) for **RHEL**

● Monitored Moody’s **Monthly**, **Quarterly**, **UKC** and **CAN** data loads for BASEL on monthly basis to ensure the Onelake and Snowflake data loads are successful

● Authored automation **Shell** script to restore **AWS S3** Content back in **QA/Prod**

● Worked on Terraform for provisioning **EKS Clusters,** S3 Buckets and IAM roles required to access the **EKS** Clusters

● Worked on resolving **Container** vulnerabilities by updating necessary docker image and ensure updating the **helm** charts with the bumped up versions before the rehydration to ensure necessary versions are deployed

● Worked on non-compliance activities for **AWS CIW S3** controls to ensure all the bucket policies are compliant (*All S3 buckets fall under 200 days of usage*)

● Prepared **Python** Lambda function to read CSV file from **S3** and upload the data in to **DynamoDB**

● Prepared **shell** scripts to reduce manual intervention to perform database health checks and sending alerts to the Application Ops team

● Worked on performing **QA/CardDA** and **PROD** Rehydrations for **Kubernetes** clusters in **Blue Green** deployment. ● Worked on setting up **IAM** roles/policies for application access using **Avenue CLI**

● Prepared automated **shell script** which reads the latest AMI from the RHEL7.json and pass it during run time for the AMI Rehydration process

● Worked on preparing **Python** scripts to connect **PostgreSQL** Database using **psycopg2** adapter, **CRUD** Operations from **Python**

● Worked on **ECON/MDAT** Dataload activities to ensure data is loaded to **OneLake** and **Snowflake**

● Worked on **EC2** rehydration for BASEL by using **terraform** script to ensure the application is running on the latest AMI and performed CNAME Flip so that the application is running on the new Infra

● Worked on **Datadog** to **Newrelic** migration for list of Monitors(metrics/integrations) for PROD, Integration done for the alerts via **Pagerduty** to **Slack** channel.

● Involved in configuring S3 versioning and lifecycle policies, backup files and archive files in glacier and set up IAM to create new accounts, roles, and groups

**Environment:** JIRA, Confluence, Oracle 11g/12c, Snowflake, PostgreSQL 9.6, Linux Administration, CI/CD, Python, Jenkins, GIT, GITHUB, Lambda, AWS Services - EC2, EKS, Cloudformation, HelmCharts, S3, RDS, Kubernetes, ECS, Kinesis, EMR, IAM, StepFunction, Terraform, Pagerduty, Cloudwatch, Cloudformation, Tableau, ECS, Fargate, Batch, BOGIE - OnePipeline

**Title: AWS Devops Engineer**

Client**: US Cellular Corporation, Chicago, IL Jan’2018 – Sep’2019   
Key Responsibilities:**

• Worked on deployment of code into Docker containers automatically using Jenkins

• Lead and provide technical assistance and/or training in using JIRA and Confluence

• Automated the build status by integrating **Jenkins**, **JIRA** and **Github** after commit in GitHub

• Configuring the Docker containers and creating Docker files for various environments

• Prepared cloud formation templates for creating IAM Role for lambda function, creating Python Function,Zip and upload to S3

• Managed Security Groups, **EC2** Instances, bootstrapping using user data using Cloud formation • Worked on automation for creating and managing email rules in SES, create alarms for cloud watch, IAM server certificates for IAM using Python Boto3 with AWS

• Prepared a PoC using AWS Developer tools AWS Codecommit, Codebuild, CodePipeline and CodeDeploy for full stack of application deployment

• Worked on setting up **CI/CD** pipeline to trigger **lambda** function and store data in to **DynamoDB** after code commit from **GITHUB**

• Worked on setting up Ansible Controller machine and Remote machines

• Worked on Rollout deployments using **Kubernetes**

• Scripted **Ansible** playbooks for automating Infrastructure as Code

• Scripted Cloudformation templates to manage Autoscaling groups and managed Lambda functions • Provided fine-grained access control to AWS resources using IAM, multi-factor authentication for highly privileged users

• Worked on deploying applications using **Kubernetes**

• Worked on Prometheus to collect System metrics

• Developed playbooks for launching web application using **Ansible**

• Scripted ansible Dynamic Inventory for setting up Hosts, organizing groups, Adhoc commands

• Worked on launching a single node and multi-node cluster in kubernetes. Deploy containers using kubernetes  
• Extensively involved in build and release management process for multiple applications using Maven, Jenkins

• Worked on AWS using python core services for configuring Load balancer, Autoscaling, Object storage, managing Route53 and configuring virtual servers using **boto3**

• Worked on setting up Atlassian Stack product **Confluence v 6.12** in Data Center

• Worked on integrating **JIRA 7.13.3** and **Confluence v 6.12**

• Working on confluence upgrade from **v6.15.2** to **v6.15.9**

• Configured LDAP user authentication for **Confluence** and **JIRA** applications using **OAUTH**

**Environment:** JIRA, Jenkins, Git, Confluence, Docker, Ansible, Terraform, Python, Oracle 11g/12c, Linux Administration, Apache, AWS – EC2, S3, ECS, Cloudformation, ELB, Auto scaling, Kubernetes,, JFrog Artifactory

**Title: JIRA/Confluence Admin, DevOps Engineer**

Client**: Thomas Jefferson University and Hospitals, Philadelphia, PA Apr’2017 – Dec’2017 Key Responsibilities:**

• Prepared JIRA/Confluence Architectural Narrative with stakeholders on the overall process

• Performed Database migration from PostgreSQL 8.4.20 to Oracle-11g for JIRA and Confluence • Performed Confluence migration from **v5.6.4**(PostgreSQL) to **v5.6.4**(Oracle-11g)

• Upgrade Confluence from **v5.6.4** to **v5.7.6, 5.7.6** to **v6.0.7** and to **v6.2.4(**Oracle-12c**)**

• Performed SQL performance tuning for effective performance of the database

• Upgrade JIRA from **v6.3.12** to **v7.4.1**

• Worked on Cloud foundry for deploying the Applications in different environments with ease

• Provide application production support to Confluence and JIRA users during and after the upgrade

• Create complex JIRA workflows including project workflows, field configurations, screen schemes, permission schemes and notification schemes in JIRA

• Extensively worked on Jenkins for continuous integration and for End-to-End automation for all Build and deployments • Troubleshoot and resolve various issues in Confluence and JIRA

• Managed **SSL** certificates and Apache SSL configuration after the application movement to **DMZ** • Integrated JIRA and Confluence in production environment

• Written automated shell scripts for various admin activities such as installing Apache2, confluence user removal, installing Microsoft fonts

**Environment:** JIRA, Confluence, Docker, Kubernetes, Docker Swarm, Oracle 11g/12c, PostgreSQL 8.4.20, Linux Administration, Apache, AWS – EC2, S3, Glacier, ELB, Auto scaling

**Title: Devops Engineer**

Client**: UR International, Houston, TX Aug’2016 – Apr’2017**

**Key Responsibilities:**

• Conducted systems design, feasibility and cost studies to recommend productive cloud solutions • Guided development teams on design of web interfaces and infrastructure that efficiently power the cloud environment

• Created alarms and notifications for EC2 hosts using cloud watch and SNS

• Employed S3-organizer plug-in to store data to S3 buckets

• Created cloud formation templates to automate the provisioning of AWS resources for Dev, QA, UAT environments

• Following the phenomenon of Build, Ship and Run, authored Docker file to create containers from various images upon result of each build from Jenkins and pushed it into Docker hub

• Constructed Continuous Integration and Continuous Delivery pipeline project in Jenkins for automation of daily deployment process

• Implemented disaster recovery by taking timely backup of **EC2** workloads by creating snapshots and preserved them as AMI’s

• Performed SQL performance tuning for effective performance of the database

• Performed data refresh and schema copy activities from production to accept database servers **Environment:** AWS, JIRA, Confluence, Python, Putty, Oracle, PostgreSQL

**Employer : Tata Consultancy Services Jul’2011 till Apr’2016**

**Title: Build and Release Engineer Jan’2012 to Apr’2016** Client: **Ericsson, Sweden**

• Conducted systems design, feasibility and cost studies to recommend productive cloud solutions  
• Migrated applications to the **AWS cloud platform**

• Deployed and configured **Chef Server,** that includes bootstrapping of **chef nodes** for provisioning of • Installing Chef Server, Workstation & Node - Creating & Uploading Chef Cookbooks

• Coordinated with geographically distributed teams and provided support during build/merge issues

• Extensively used **S3**, **Glacier** for storage purpose [for storing archives and production related dumps] and RDS for launching an Oracle Database 11g EE

• Monitor application and database servers and troubleshoot the issues by analyzing the log files and resolve them on priority basis

• Create team specific agile process flow in JIRA to move tasks from one activity to another

• Used **IAM** for controlling the access to AWS resources for our users   
• Experience in Linux administration activities including network based installation, RAID, LVMs, Disk quotas, configuration of DHCP, DNS, NTP, User and Group Administration, iptables, Linux performance tuning and monitoring using Nagios

• Authored automated **shell** scripts to reduce manual intervention for performing database health checks and sending alerts to the Application Operations team

• Used IT Service Management (ITSM) tool BMC remedy for raising change management tickets, assign tasks and close the incident tickets on/before time

• Generated AWR, ADDM, ASH reports to continuously monitor the DB server’s health

• Successfully migrated COBOL code to JAVA and DB2 data to Oracle

• Monitored Oracle DB Servers [Check backups, logs, Processes, Memory, Locks], performed SQL tuning

• Administer user access in Confluence, check compatibility of plugins and update them accordingly in JIRA/Confluence • Analysis of COBOL code, documentation and reviews with design team

• Performed data refresh and schema copy activities from/in production to test/accept/prod database servers • Worked on **z/VM** Mainframe re-hosting to migrate zVM environment to Solaris

**Environment:** AWS EC2, S3, Glacier, RDS, IAM, ELB, VPC, Chef, Shell, Ansible, Redhat (7.x), Apache, GIT, Jenkins, MPUTTY, BMC Remedy, Confluence, JIRA

**Title: Mainframe Developer**

Client: **Chrysler, Detroit, MI Aug’2011 to Dec’2011**

**Key Responsibilities**

• Prepared low level design and BRD, handled Migration of database (From COMPASS – Penta SAP) on the Violation and release process

• Collaborated with QA team to understand and resolve the issues, prepared test cases & UTP, involved in peer reviews **Environment:** COBOL, JCL, DB2, CICS, VSAM

**Employer: Penfos Systems Apr’2008 to Jul’2011**

Title: Mainframe System Programmer **Nov’2010 to Jul’2011**Client: **Birlasoft**Key Responsibilities

• Preparation of Low level design, prepared test cases and UTP, performed peer reviews for technical reports test instructions, performed system-testing, END-END and regression testing

**Environment:** COBOL, JCL, DB2, SQL.

**Title**: Mainframe Developer

Client: **Colruyt IT Consultancy India Pvt. Ltd Apr’2008 to Jul’2010**Key Responsibilities

• Involved in code walkthroughs and initiated induction sessions for the team, performed peer reviews for technical reports test instructions. Created ER-diagrams for database modeling and design. **Environment**: COBOL, JCL, DB2, SQL