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**CHARAN KANULLA**

**DevOps Engineer**

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**Professional Summary**

* Around 11 years of experience in the IT sector in which 8 years into DevOps, build engineering and release management process, Site Reliability Engineering, building and deploying applications by adopting DevOps practices such as Continuous development. 3 years of Linux Administrator.
* Worked on installation, configuration, maintenance and troubleshooting of red hat Linux, Suse Linux, Ubuntu, Fedora, CentOS, Sun Solaris, and some Windows Servers.
* Experience in Cloud implementations AWS, Azure, GCP involving extensive work towards code compilation, packaging, building, debugging, automating, managing, tuning and deploying code across multiple environments yet flexible in multitasking when necessary. Proficiency in writing automation scripts to support infrastructure as code in AWS/Azure and Linux/Windows Administration.
* Experience in architecting and Configuring public/private cloud infrastructures utilizing Amazon Web Services (AWS) including EC2, Elastic Load-balancers, Elastic Container Service (Docker Containers), S3, CloudFront, RDS, DynamoDB, VPC, Direct-Connect, Route53, Cloud Watch, Kinesis, Cloud Formation, IAM
* Experience on complete software development life cycle (SDLC) with software development models like Agile, Scrum Model, JIRA, Waterfall model.
* Highly motivated and committed DevOps Engineer experienced in Automating, configuring and deploying instances on AWS, Microsoft Azure and Rackspace cloud environments and Data centers.
* Build and configure a virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer (ELB).
* Transfer data from Datacenters to cloud using AWS Import/Export Snowball service.
* Automate deployment for SaaS based application on cloud using Chef Enterprise, Pivotal Cloud Foundry and AWS.
* Manage Amazon Redshift clusters such as launching the cluster and specifying the node type as well.
* Setup and build AWS infrastructure using various resources, VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates, Route53, Lambda.
* Create and deploy applications, manage domains, control access to our OpenShift applications, and give you complete control of your cloud environment.
* Familiarity with serverless computing concepts and experience in using AWS Lambda and API Gateway to build and deploy serverless applications and APIs.
* Proficient in utilizing Harness for automated deployment and API testing, ensuring reliable and scalable software delivery.
* Designed and optimized Splunk architecture to handle increasing infrastructure demands, improving search performance and resource utilization.
* Hands-on experience in using OpenShift for container orchestration with Kubernetes, container storage, and automation, to enhance container platform multi-tenancy.
* Expertise in Terraform to reliably version and create infrastructure on Azure/AWS. Created resources, using Azure/AWS Terraform modules, and automated infrastructure management and experienced with Terraform key features such as Infrastructure as code.
* Conducted Selenium testing across different operating systems (Windows, macOS, Linux) to ensure consistent application behavior and functionality.
* Worked on AWS for deploying EC2 instances consisting of various flavors viz., Oracle Linux, RHEL, CentOS, Ubuntu and Solaris in both Linux and Windows.
* Created and deployed VMs on the Microsoft cloud service Azure, managed the virtual networks, Azure AD and SQL.
* Experience in maintaining Atlassian products like JIRA, Confluence, Bamboo and Bitbucket.
* Experience in development and deployment of applications using JBoss, IBM WebSphere Application and Apache Tomcat.
* Knowledge in Terraform as infrastructure providers, build images using Packer.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2instances, Auto-Scaling, Elastic Load Balance (ELB) and AMIs and Glacier for QA and UAT environments as well as infrastructure servers for GIT and Chef.
* Implemented cluster services using Kubernetes and Docker to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Terraform and Ansible and deploying application containers.
* Designed and implemented for fully implemented server build management, monitoring, and deployment by using chef.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, Shell/Bash, Perl, Groovy and Docker on familiar servers like Apache.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Created and updated puppet manifests and modules, files and packages stored in GIT repository. Responsible for implementing Puppet for applications deployment.
* Perform architect roles like redefining architecture and automate existing one.
* Experience in Installation and Configuration of different modules of Service-Now.
* Experienced in branching, tagging and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN) and TFS on Linux and windows platforms.
* Implemented comprehensive monitoring and alerting solutions for PostgreSQL databases using tools like Nagios, Prometheus, or Grafana to proactively identify and address performance issues and potential outages.
* Extensive expertise in designing, deploying, and maintaining SaaS applications and cloud infrastructure across platforms such as GCP as well as On-Premises virtualized environments.
* Extensive experience in deploying and managing cloud infrastructure with a focus on Google Cloud Platform (GCP), optimizing performance and resource utilization.
* Developed and maintained real-time data interfaces using APIM tools, enabling seamless data exchange between on-premises, cloud, and SaaS platforms, which significantly reduced latency and improved data reliability.
* Developed Playbooks using Ansible to deploy consistent infrastructure code across multiple environments.
* Installed Jenkins/Plugins for GIT repository, setup SCM polling for immediate build with maven and maven repository (Nexus Artifact) and deployed apps using custom Ruby modules through puppet as a CI/CD process.
* Worked on Jenkins jobs to new server, Jenkins pipelines, and Dockized build environments
* Advance troubleshooting for SSO web applications and SAML integrations Digital Key Management and Federated Identity partner integration.
* Worked on monitoring tools such as Nagios, Splunk, ELK Stack (Elasticsearch, Log stash, Kibana), Cloud Watch.
* Experience in Installing, configuring Cloud Foundry Ops Manager, App Manager, Etc.
* Configuring and installing VMware virtual center servers and VMware Vcenter Appliance.
* Managed VMware ESXi hosts using vSphere client and Web client. Created and deployed LVM, resized the logical volume and volume group.
* Monitoring the servers using tools like BMC and Nagios and providing 24x7 on call support rotation basis.
* Expertise in Installing and Managing LDAP, NIS, NIS+, NFS, DHCP, SAMBA, DNS etc. Knowledge of using Routed Protocols like FTP, SFTP, SSH, HTTP, HTTPS and Direct connect.

**Technical Skills**

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| --- | --- |
| AWS Services | RDS, EC2, VPC, IAM, Cloud Formation, EBS, S3, ELB, Auto Scaling, Cloud Trial, SQS, SNS, SWF, Cloud Watch. |
| CI/CD | Chef, Puppet, Ansible, Jenkins, Kubernetes, Azure, Cloud Foundry, Circle CI, TeamCity, Maven, ANT, Git, SVN, TFS, Atlassian Jira, Selenium, Nexus, J Frog, Docker. |
| Artifactory | Jfrog and Nexus |
| Web Servers | Tomcat, APACHE 2.x, 3.x, JBoss 4.x/5.x, Web Logic (8/9/10) & Web Sphere 4.0/5.0, Nginx. |
| Documentation | Confluence |
| Operating Systems | Linux (RedHat CENTOS), Unix, Solaris 11/10/9/8, Ubuntu 12/13/14, Windows NT, Windows MacOS, RHEL, Microsoft OS. |
| Tracking Tools | Jira |
| Code Scanning | Sonar Qube, Jfrog X ray, ECR Inspector |
| Databases | RDS, Cosmos DB, My SQL DB, Oracle, Dynamo DB |
| Logging | Cloud Watch, Cloud Trail, Azure App Insights, Azure Monitor |
| Configuratio&Automation Tools | Jenkins, Chef, Puppet, Ansible, Docker, Kubernetes, Vagrant, Terraform. |
| Container Platforms | Docker, Kubernetes, Open Shift. |
| Monitoring Tools | Nagios, Splunk. |
| Languages/ Scripting | Python, YAML, Ruby, PHP, Bash, PowerShell, JSON, Shell Scripting, C, C++, XML, PL/SQL, HTML, PERL, .Net, Gradle, Groovy. |
| Cloud Platforms | Microsoft Azure, Aws Cloud. |
| Azure Services | App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL, Azure Cosmos DB. |
| Version Control Tools | SVN, GIT, Git OPS, GitHub, Git lab, Bit bucket. |

**Education**

* Bachelor’s in computer science from JNTUH, India.

**Certification**

* Microsoft Certified Azure Administrator
* Certified Kubernetes Administrator
* AWS Developer – Associate

**Working Experience**

**Hitachi Vantara, Waltham, MA. Nov 2022 to till now.**

**Sr Cloud Engineer**

**Responsibilities:**

* Worked on a variety of Unix platforms RHEL 5.x/6.x/7, which includes installation, configuring, and maintenance of applications for prod/stage/dev environments.
* Responsible for architecting, designing, implementing, and supporting cloud-based infrastructure and its solutions.
* Collaborating with multiple teams to achieve SDLC using DevOps practices and documenting the process and project flow in onboarding the applications on multiple platforms.
* Involved in analyzing and documenting the architecture's design principles, patterns, and best practices.
* Extensively worked on AWS Cloud services like EC2, VPC, IAM, RDS, ELB, EMR, ECS, Auto-Scaling, S3, Cloud Front, AWS S3 Glacier, Elastic Beanstalk, AWS Lambda, Elastic Cache, Route53, Ops Works, Cloud Watch, Cloud Formation, Redshift, DynamoDB, SNS, SQS, SES, Kinesis Firehose, AWS Lambda, AWS Cognito IAM.
* Expertise in containerization technologies such as Docker and Kubernetes, and ability to deploy and manage containerized applications using AWS services such as Elastic Container Service (ECS) or Elastic Kubernetes Service (EKS).
* Automated Build and Deployment process Continuous Integration and Continuous Deployment of applications onto different environments like Dev, QA, and Production.
* Installation, Configuration, and Maintenance of Virtual Machines, VMware ESXi 5.0/5.5 Host Server, vSphere Suite with P2P and P2V.
* Utilized GCP Anthos to manage our On-prem clusters.
* Conducted regular compliance audits and assessments to evaluate the effectiveness of data protection measures, identify areas for improvement, and ensure ongoing compliance with GDPR and HIPAA regulations.
* Experience in implementing AWS lambda to run servers without managing them and to trigger run code by S3 and SNS.
* Experience with built Elastic search, Log stash, and Kibana (ELK) for centralized logging and then storing logs and metrics into an S3 bucket using Lambda function for more than two weeks.
* Deployed and configured Elastic search, Logstash, and Kibana (ELK) for log analytics, full-text search, and application monitoring in integration with AWS Lambda and Cloud Watch.
* Automated provisioning and repetitive tasks using Terraform and Python, Docker container, and Service Orchestration.
* Implemented multi-tier application provisioning in open stack cloud, integrating it with ANSIBLE, migrating the application using Maven as a build tool.
* Responsible for Continuous Integration and Continuous Delivery process implementation using Jenkins, Python, and Shell scripts to automate routine jobs.
* Deploy applications using Jenkins server and Troubleshoot build and release job failures, resolve, and work with engineers on resolution.
* Involved in designing and implementing cloud-native solutions on GCP using services such as Google Kubernetes Engine (GKE), Cloud Storage, and Cloud Functions.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing Terraform code and administered/engineered Jenkins for managing weekly Builds and integrated Jenkins with various DevOps tools such as Nexus, Sonar Qube, and Chef.
* Proficient in Git, GitHub, and GitHub Actions for version control, collaboration, and continuous integration (CI) workflows.
* Integrating Ant and Maven with Jenkins to run to automate the build process as a part of continuous delivery.
* Experience in working with the EC2 Container Service plugin in Jenkins which automates the Jenkins master-slave configuration by creating temporary slaves.
* Involved in Defining and configuring AWS resources such as EC2 instances, S3 buckets, RDS databases, Lambda functions, and more using CDK.
* Coordinated and assisted developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control and analyzed and resolved conflicts related to merging of source code for GIT.
* Used Ansible to set up/teardown of ELK stack (Elasticsearch, Log stash, Kibana) and troubleshoot the build issues with ELK and work towards the solution.
* Used Microsoft Entity Framework Code First approach for the Data Access Layer for the ASP.NET MVC 4 application. Creating Cloud Watch alerts for instances and using them in Auto scaling launch configurations.
* Created Docker images using a Docker file. Worked on Docker container snapshots, removing images, and managing Docker volumes, and experience with Docker container service.
* Responsible for providing subject matter expertise in Kubernetes and Docker in the Containerization technologies.
* Created Kubernetes cluster with objects like Pods, Deployments, Services, and Config Maps and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Helm packages.
* Experience in designing of Cloud for customers looking to migrate from On-Premises to develop new PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).
* Involved in the development of a test environment on Docker containers and configuring the Docker containers using Kubernetes. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy. Worked with the development teams on the CI/CD process related to Kubernetes deployments.
* Perform Kubernetes cluster builds, upgrades, and configuration.
* Build and deploy the images and containers a/c to requirement by using Docker and push the code into the hosts.
* Build and deploy the application code using the CLI of Kubernetes called kubectl, kubelet, kubeadm, and microk8s.
* Provision infrastructure by using Ansible Playbooks.
* Worked on using GCP tools and services for monitoring, logging, and alerting, including Stackdriver Logging, Stackdriver Monitoring, and Cloud Trace.
* Extensively involved in setting up Kubernetes (k8s) clusters for running microservices and implementing a Kubernetes Container Orchestration solution within OpenStack allows for easy management.
* Managed local Deployments in Kubernetes using the OpenShift platform, creating local clusters, and deploying application containers and used OpenShift to manage microservices for the development of CI/CD.
* Automated Datadog Dashboards with the stack through Terraform Scripts. Configured CloudWatch and Datadog to monitor real-time granular metrics of all the AWS Services and configured individual dashboards for each resource Agents.
* Monitored Kubernetes clusters using Grafana and Prometheus.
* Optimized server performance by tuning operating systems and networking configurations on bare metal servers, achieving significant improvements in throughput and latency for real-time applications.
* Installed/configured/maintained/administrated the network servers Satellite, DNS, NIS, NFS, Send mail and application server Apache, JBOSS, WebLogic, Oracle E-business suite, and Samba on Linux.
* Configured and maintained Active Directory Federation Services (ADFS), enabling secure single sign-on (SSO) for multiple applications both on-premises and in the cloud, thereby enhancing user experience and security.
* Migrate IaaS, PaaS, and SaaS instances between public and private clouds - Apache, RDBMS, Unix/Linux, NAS/SAN, LAN/WAN VPN, Security, IDS, Firewalls, and Encryption.
* Integrating Defect tracking tool JIRA with Confluence and Jenkins CI server for identifying, logging, tracking, and documenting defects/issues in real time.

Environment: RedHat Linux, AWS, Azure, GCP, Elasticsearch, Logstash and Kibana (ELK), Ansible, Maven, Jenkins, Ruby, Shell, Jira, Python, Oracle, WebLogic Server 11g, Load Balancers, WLST, Apache Tomcat, Docker, Kubernetes, Apache HTTP server, Nginx, LDAP, JDK1.7, XML, GIT, GitHub/Bitbucket, Grafana, Prometheus

**IndSoft Inc. (client: AmeriGas), Austin, Texas. July 2021 to Oct 2022**

**Sr Cloud Engineer**

**Responsibilities:**

* Migrating the on-premises application to the Microsoft Azure cloud environment and developing the Azure DevOps pipelines to automate our application builds.
* Involved in SCRUM stand-up, grooming, planning, demo/review, and retrospective) with the teams to ensure successful project forecasting and realistic commitments.
* Worked on Azure (IaaS) to migrate creating Azure VMs, storage accounts, VHDs, and storage pools, migrating on-premises servers to Azure and creating availability sets in Azure, and performed hardening of the VMs and disk encryption using the KEK key in MS Azure.
* Worked on PowerShell scripts to automate the Azure cloud system creation of Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rules.
* Implemented Harness for automated deployment pipelines, enabling continuous delivery of applications with built-in quality gates and rollback capabilities.
* Spearheaded the adoption of DevSecOps practices, embedding security throughout the software development lifecycle, resulting in heightened threat detection and prevention, and facilitating continuous compliance.
* Working on integrating VMware environments with Azure cloud services.
* Initiated responsibility for administering the GIT servers, including install, upgrade, backup, adding users, creating repository/branches, troubleshooting merging, tagging issues & amp, maintenance.
* Utilizing Azure DevOps for continuous integration and continuous deployment (CI/CD) pipelines, including setting up build and release pipelines, and configuring deployment environments.
* Designed and implemented automated process of build and deployment for various .Net and Java applications using various tools as per the needs of projects which includes GIT,Jenkins.
* Involved in implementing CI/CD pipelines for VMware workloads in Azure.
* Experience working with cloud-native technologies such as serverless computing, microservices, and cloud storage services, which are commonly used in hybrid cloud and multi-cloud architectures.
* Experience with setting up and configuring Prometheus for monitoring and alerting system metrics, such as CPU usage, memory utilization, and network traffic.
* Developed monitoring dashboards for Kinesis streams using tools like CloudWatch to visualize real-time data flow and identify potential bottlenecks.
* Integrated various applications with Azure Active Directory for centralized identity management. Utilized OAuth and OpenID Connect for secure API access, enhancing the scalability and security of enterprise applications.
* Designing continuous deployment strategy for the Docker Images using Flux, performing rolling updates, in Kubernetes and Azure AKS. Developed a Jenkins Pipeline to automate to push the images to ACR, and then deployed it in Kubernetes.
* Utilized Kubernetes service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal.
* Migrated moderate workloads from on-premises to Azure lamas. Published web services APIs using Azure API management service.
* Automated Microsoft recommended load balancing techniques using PowerShell to reduce the workload of the DC holding the PDCE FSMO role and programmatically redistribute NTDS connections across multiple Domain Controllers in the central Hub site, allowing for improved scalability in an already significantly large Azure Active Directory environment.
* Implemented disaster recovery strategies in Azure Service Fabric environments, successfully conducting simulated failover exercises to validate system resilience.
* Working on strong analytical and problem-solving skills, and the ability to troubleshoot and resolve issues related to GCP infrastructure and applications in production environments.
* Worked directly with Azure Product team in tracking and resolving defects in the beta Azure IaaS offering.
* Worked on development of a test environment on Docker containers and configured the Docker containers using Kubernetes.
* Optimized Kinesis costs by implementing autoscaling mechanisms based on real-time data volume fluctuations.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Written Docker files with best practices along with Docker, Docker container management along with volumes, container-based DB and services, Docker Artifactory configuration and setup.
* Managed Clusters with various Servers in Azure Cloud Resource groups. Implemented various services in Azure like Data Lake to store and analyze the data. Managed to orchestrate the data to and from the Data Lake Store using Azure Data Factory.
* Configured Azure Active Directory Connect to synchronize directories and enable single sign-on (SSO), improving user experience by allowing seamless access to various cloud and on-premise applications.
* Working on deployment automation of all the microservices to pull images from the private Docker registry and deploy to the Docker swarm cluster using Ansible.
* Worked on Serverless services, created and configured HTTP Triggers in the Azure Functions with application insights for monitoring and performing load testing on the applications using the VSTS (Azure DevOps).
* Use of Docker, Kubernetes, and OpenShift to manage microservices for the development of continuous integration and continuous delivery.
* Spearheaded the deployment of containerized applications using Docker and Kubernetes directly on bare metal servers, leveraging the inherent performance advantages of non-virtualized environments.
* Leveraged Harness for API testing, conducting comprehensive validation of endpoints, payloads, and responses to ensure API functionality and reliability.
* Implemented data and storage management solutions in Azure (SQL, Azure files, Queue storage, Blob storage).
* Configured data sources for JBOSS with various versions of databases and multi-platform servers using Nagios.
* Used Gradle as a build automation tool that uses a Kotlin or Groovy-based domain-specific language to define build configurations, project dependencies, and custom build logic.
* Used Maven dependency management system to deploy snapshots and release artifacts to Nexus to share artifacts across projects.
* Managed Sonatype Nexus repositories to download the artifacts Azure like jar, war and ear during the build.Worked with the development teams.
* Managed local Deployments in Kubernetes using the OpenShift platform, creating local clusters, and deploying application containers and used OpenShift to manage microservices for the development of CI/CD.
* Integrated PostgreSQL database changes into CI/CD pipelines to automate testing, validation, and deployment processes, ensuring rapid and reliable delivery of database changes.
* Performed Kubernetes cluster builds, upgrades, and configuration. Installed and administrated Apache Kafka.
* Apache HTTP Server: a free and open-source web server that is widely used on the Internet. It is highly configurable and supports many plugins, making it a popular choice for serving static and dynamic content.
* Worked with Kubernetes clusters in multiple clouds and bare metal environments. Troubleshoot issues related to our Kubernetes clusters. Monitored Kubernetes clusters using Grafana and Prometheus.
* Provided Terraform plugins to enable Terraform to interact with different APIs and cloud platforms. To allow in defining and managing resources across multiple cloud platforms using the same language and tooling
* Administrated Linux by installing patches and latest versions.
* Used Ansible as a configuration management tool to deploy consistent infrastructure code across multiple environments and wrote playbooks using YAML script for automating the infrastructure for test and production. Used Ansible Tower to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Involved in creating an Ansible playbook to cover repetitive tasks and automate them.
* Participate in research, POC for third-party integrations with Kubernetes, and testing new Kubernetes features and technologies.
* Designed and deployed automated systems to monitor compliance with HIPAA standards, using tools such as Ansible and Terraform for infrastructure as code, which significantly reduced manual overhead and improved accuracy in compliance reporting.
* Setting up the environment using Kubernetes on Linux and cloud environment validating, backup upgrade, and large cluster using Kubernetes.
* Developed custom DataDog monitors and alerts for application-specific metrics, improving the reliability of real-time data processing applications.
* Collaborated with the infrastructure, network, database, application, and BI teams to ensure data quality and availability.
* Install and configuration for security tools for Atlas, Ranger, and Nifi by using public clouds.
* Worked with Java Support and resolved all build issues and pipeline issues and suggested the teams upgrade spring boot versions.

**Environment** Microsoft Azure, GIT, Gitlab, Maven, Artifactory, Sonar Qube, Fortify, Jenkins, Ansible, Kubernetes, Terraform, Python, Ruby, XML, Shell Scripting, PowerShell, Golang, Nexus, JFrog, Jenkins, Jira, GitHub, Docker, Windows Server, TFS, VSTS, LDAP, Splunk, Prometheus, Grafana.

**Best Buy, Richfield, MN. Jan 2020 to June 2021**

**DevOps Engineer**

**Responsibilities:**

* Involved in DevOps migration/automation processes for build and deploy systems.
* Consulted and recommended client in Build and Release Management Implementation.
* Used SCM/Build tools for Developers. Helping to resolve all SCM/Builds issues like merge conflicts, compilation errors, missing dependencies, Branching/Merging/Tagging.
* Worked with Ansible playbooks for virtual and physical instance provisioning, Configuration management and patching through Ansible.
* Automated using Ansible, Python, Perl or shell scripting with attention to detail, standardization, processes and policies.
* Worked in an agile development team to deliver an end-to-end continuous integration/continuous delivery (CI/CD) product in an open-source environment using tools like Puppet, Jenkins.
* Experience in writing Puppet manifests and modules to automate the deployment process and to integrate Puppet manifests into Jenkins jobs for a continuous delivery (CD)framework.
* Configured and monitored distributed and multi-platform servers using chef.
* Setup and build AWS infrastructure using various resources, VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates, Route53, Lambda.
* Worked on AWS for deploying EC2 instances consisting of various flavors viz., Oracle Linux, RHEL, CentOS, Ubuntu and Solaris in both Linux and Windows.
* Developed build and deployment scripts using Gradle and Ant, Maven as build tools in Jenkins to move from one environment to other environments.
* Used DataDog’s log management features to track and analyze over 1 billion log entries per day, aiding in the timely identification of critical issues.
* Leveraged Harness for Blue/Green deployments on Kubernetes, enhancing deployment safety and reducing rollback time by 70% for a real-time financial transaction processing system.
* Created a fully CI/CD process. Automated Build and Deployment Platform and coordinating code build promotions and orchestrated deployments using Jenkins/Hudson and GitHub.
* Implemented Git branching strategies and enforced code review processes using GitHub, enhancing code quality and facilitating collaboration among distributed teams.
* Build Java code on to different Jenkins servers as per the schedule.
* Experience in working in .Net application and branching, Tagging, Release Activities on Version Control Tool like GIT and Subversion (SVN).
* Automated the deployment of DataDog agents using Ansible and Terraform across 100+ virtual machines, ensuring consistent monitoring configurations.
* Collaborated with legal, compliance, and IT teams to ensure all DevOps practices met HIPAA requirements. This included adapting CI/CD pipelines to incorporate compliance checks and deploying secure data storage solutions.
* Experience in resolving issues of merge conflicts and developing Custom Scripts to monitor repositories and Server storage.
* Installed Nexus repository tool to maintain the artifacts/dependencies jars.
* Integrated Harness with Jenkins and GitHub to streamline CI/CD processes, enabling faster feedback loops and reducing build and deployment issues by 30% for a real-time content delivery network.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Deploy code updates into test and production environments and work to roll environments forward.
* Knowledge of Splunk content development with the ability to create queries and dashboards.
* Worked as a site reliability engineer the main task is to design and implement adaptive remote testing framework for installation and customization of multitenant cloud environments, their integration with distributed data sources.
* Maintained and managed assigned systems, Splunk related issues and administrators.
* Worked with Open Shift platform in managing Docker containers and Kubernetes Clusters.
* Created and maintained the Power Shell scripts and Perl scripts deployment scripts for Tomcat application servers.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments.
* Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and automated the whole process.
* Worked as a Release Engineer for Enterprise Applications. Perform App Dynamics post Deployment monitoring and Validation reports.
* Researched and implemented code coverage and unit test plug-ins like find bugs, check style and with Maven/Hudson.
* Responsibility to perform the Security Scans, defect tracking, defect reporting and defect reproducing using Sonar Qube, Bugzilla and JMeter.
* Manage releases to make sure the code goes to live with Quality and security.

**Environment**: Java, Maven, ANT, Gradle, groovy, GIT, SVN, Puppet, Jenkins, Ruby, Splunk, JMeter, Tomcat, Sonar Qube, Bugzilla, Shell and Perl Scripts, Oracle Ansible, PowerShell, Nexus, RHEL 5.x/6.x

**General Motors, MI Nov 2018 to Dec 2019**

**SRE / DevOps Engineer**

**Responsibilities:**

* Collaborated with software development teams to design and implement highly available and fault-tolerant architectures for web applications.
* Implemented robust monitoring and alerting systems.
* Ensured to detect the performance issues and proactive resolution at an early stage.
* Developed custom modules in Terraform.
* Led incident response efforts and coordinated with cross-functional teams to restore services quickly and minimize customer impact.
* Written Ansible Playbooks for various DB configurations to modularize and optimize product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Developed and maintained Continuous Integration (CI) using tools in Azure DevOps (VSTS) spanning multiple environments, enabling teams to safely deploy code in Azure Kubernetes Services (AKS) using YAML scripts and HELM charts.
* Hands-on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (Vets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing. Azure cloud services, Blob storage, Azure Active directory, Azure Service Bus, Cosmos DB.
* Integrating Ant and Maven with Jenkins to run to automate the build process as a part of continuous delivery.
* Integrated Harness with CI/CD workflows to automate API testing as part of the deployment process, enhancing testing coverage and accelerating time-to-market.
* Proficient in designing and implementing microservices architecture using C# and .NET technologies, enabling scalability, resilience, and maintainability of distributed systems.
* Worked on creating, configuring, and managing AKS clusters in Azure, including managing node pools, configuring networking, and setting up load balancing.
* Created reusable templates in UCD for diverse application types (Java, WebSphere, Tomcat etc.) for streamlined deployments.
* Worked on Creating the Docker images on top of Docker files and push the images to the container registry.
* Extensively involved in setting up Kubernetes (k8s) clusters for running microservices and implementing a Kubernetes Container Orchestration solution within OpenStack allows for easy management.
* Managed local Deployments in Kubernetes using the OpenShift platform, creating local clusters, and deploying application containers and used OpenShift to manage microservices for the development of CI/CD.
* Experience in deploying and managing applications on Azure Kubernetes Service (AKS).
* Collaborate on development of main Web Applications to provide invoicing emission services, Responsible for web application deployments over cloud services on Azure, using VS and PowerShell.
* Provisioning servers/instances using infrastructure as code such as Terraform. Code is stored in a private repository and constantly updated.
* Automated CI/CD pipelines for Azure Service Fabric deployments using Azure DevOps, reducing deployment times by 40% and increasing release frequency.
* Experience in designing and implementing scalable, fault-tolerant, and highly available infrastructure using Terraform.
* Experience with PaaS-specific tools and services such as load balancers, auto-scaling, monitoring, logging, and analytics.
* Experienced in configuring and customizing Urban Code Deploy to fit specific application requirements and deployment scenarios.
* Expertise in integrating Urban Code Deploy with other DevOps tools such as Jenkins, Git, and Ansible for seamless end-to-end.
* Migrated moderate workloads from on-premise to Azure lamas. Published web services APIs using Azure API management service
* Implemented a Continuous Delivery pipeline with Docker, Jenkins, and GitHub. Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker Images to the Nexus Repository.
* Used Sonar Qube for continuous inspection of code quality and to perform automatic reviews of code to detect bugs. Automated Nagios alerts and email notifications using Python script and executed them through Chef.
* Installed, configured, and maintained web servers like Apache Web Server and WebSphere Application Server on Red Hat Linux.
* Installation, configuration, and upgrade of RHEL 4/5/6 (and some 7), Ubuntu, Oracle Enterprise Linux5/6/7 operating systems.
* Experience with Red Hat Linux kernel, memory upgrades, and swaps area. Red Hat Linux Kick start. Installation Sun Solaris Jumpstart Installation. Configuring DNS, DHCP, NIS, and NFS in Sun Solaris 8/9 & other Network Services.
* Provided highly durable and available data by using S3 data store, versioning, and lifecycle policies.
* Performed the automation deployments using Azure by creating the IAMs used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Worked with Knife command line tool for creating Recipes and cookbooks and worked with chef supermarket.
* Implemented Docker-Maven plugin and Maven POM to build Docker Images for all microservices and later used Docker file to build the Docker Images from the java jar files.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking, and user management with build tools Maven and Ant and written Maven pom.xml build script.
* Provided Terraform plugins to enable Terraform to interact with different APIs and cloud platforms. To allow in defining and managing resources across multiple cloud platforms using the same language and tooling
* Collaborated with cross-functional teams using New Relic's shared dashboards, facilitating effective communication and teamwork in troubleshooting, root cause analysis, and implementing solutions for rapid DevOps iterations.
* Implemented a CI/CD pipeline using Azure DevOps (VSTS/TFS) in both cloud and on-premises with GIT, MS Build, Docker, and Maven along with Jenkins pipeline builds & YAML/JSON.
* Enforced operational policies through GitOps-driven operations, enabling seamless rollback, audit trails, and compliance, while enhancing development velocity and reducing operational risks.
* Managing the Azure Kubernetes Services (AKS) policies, providing access to different Azure resources, and developing and improving the workflows that govern access.
* Installed, Configured, and Managed Monitoring Tools such as Nagios for Resource Monitoring/ Network Monitoring.
* Created scripts in Python and Bash to monitor & increase the efficiency of retail management application systems and installs which was carried out by Jenkins.
* Managing services, maintaining, and managing log files, monitoring events, and logs, troubleshooting system problems using the Nagios tool, and resolving any reported issues.
* Utilized ServiceNow Cloud Management for optimizing cloud operations and configuration management.
* Integrating Defect tracking tool Azure DevOpsBoards and Azure DevOps Pipelines for identifying, logging, tracking, and documenting defects/issues in real-time.

**Environment**: Linux, Azure, Azure DevOps, AWS, Terraform, Maven, Jenkins, Chef, Azure ARM Templates, Azure Active Directory, Azure Site Recovery, Kubernetes, Python, XML, Shell Scripting, PowerShell, Nexus, JFrog Artifactory, Jira, Docker, Windows Server, Nagios, Gitlab, Sonar Qube, Cloud Foundry, PCF, PKS, New Relic

**Capital one, Plano. Sep 2016 to Oct 2018**

**DevOps/AWS Engineer**

**Responsibilities:**

* Installation, Maintenance, Administration and troubleshooting of Red hat/SuSE/CentOS/ Ubuntu Linux, Sun Solaris, /AIX/ HP-UX Unix and Windows 2003/2008/2012 operating Systems.
* Performed automated installations of Operating System using Jumpstart for Solaris and kick start for Linux.
* Responsible for Installation, troubleshooting & configuring of Redhat Satellite Servers. Configured Redhat Satellite Servers for upgrading and patching of all Linux servers in the network.
* Experienced in Configuring virtual machines on VMware and KVM for Linux OS. Installation and configuration of Veritas Volume Manager, LVM, Veritas File System and Veritas Cluster Server in Linux and UNIX environment.
* Helped in migrating and managing multiple applications from on premise to cloud using services like Snowball, DMS, Server Migration Service (SMS).
* Experienced in installing, configuring, administrating Jenkins on Linux machines alongside updating plugins like GIT, Maven, SVN and Puppet.
* Developed ASP.NET MVC 4 application in Test Driven Development environment using Microsoft Test as the Testing framework.
* Implemented the setup for Master slave architecture to improve the performance of Jenkins, and also used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
* Experienced in SCM tools GIT/GIT Hub and Ensured the reliability of applications by creating release branches and development branches using GIT Branching.
* Proficient in installing and configuring Nagios, monitoring tool to monitor bandwidth of server network and hard drive status and improved monitoring in Nagios and custom plugins.
* Worked on Installation/Configuration/Administrated VMware ESXi 5.1/5.5 and migrated existing servers into VMware Infrastructure and Troubleshoot server issues and registered events since Forced Crash Dumps.
* Experience and Familiar with Virtualization technologies like installing, configuring, administering VMware ESX/ESXi and Citrix Xen Server. Created and managed VMs (virtual server) and also involved in the maintenance of the virtual server.
* Configured Elastic Load Balancers with EC2 Autoscaling groups. Deployed cloud stack using AWS Ops works.
* Created monitors, alarms, and notifications for EC2 hosts using CloudWatch and Configured multi-platform servers using Nagios.

**Global Foundries, New York, USA. Oct 2013 - Aug 2016**

**Build & Release Engineer**

**Responsibilities:**

* Involved in designing and deploying a multitude application utilizing almost all of the AWS stack (Including EC2, Route53, S3, RDS, DynamoDB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud formation.
* Installation, Maintenance, Administration and troubleshooting of Redhat/SuSE/CentOS/ Ubuntu Linux, Sun Solaris, /AIX/ HP-UX Unix and Windows 2003/2008/2012 operating Systems.
* Performed automated installations of Operating System using Jumpstart for Solaris and kick start for Linux.
* Responsible for Installation, troubleshooting & configuring of Redhat Satellite Servers. Configured Redhat Satellite Servers for upgrading and patching of all Linux servers in the network.
* Experienced in Configuring virtual machines on VMware and KVM for Linux OS. Installation and configuration of Veritas Volume Manager, LVM, Veritas File System and Veritas Cluster Server in Linux and UNIX environment.
* Helped in migrating and managing multiple applications from on premise to cloud using services like Snowball, DMS, Server Migration Service (SMS).
* Optimized Snowflake usage and costs by right-sizing compute resources, leveraging auto-scaling capabilities, and implementing workload management policies to prioritize critical workloads during peak times.
* Experienced in installing, configuring, administrating Jenkins on Linux machines alongside updating plugins like GIT, Maven, SVN and Puppet.
* Worked closely with Project Managers to understand a configuration release scope and how to confirm a release was successful.
* Interacted with client teams to understand client deployment requests.
* Responsible for distribution applications across hybrid AWS and physical data centers.
* Configured AWS IAM Security Group in Public and Private Subnets in VPC.
* Written Cloud Formation templates and deployed AWS resources using it.
* Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and   
  Glacier for storage and backup on AWS.
* Creating Cloud Watch alerts for instance and using them in Auto scaling launch configurations.
* Involved in scrum ceremonies (stand-up, grooming, planning, demo/review and retrospective) with the teams.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS and SNS services in AWS cloud.
* Built Continuous Integration environment Jenkins and Continuous delivery environment.
* Deployed applications on AWS by using Elastic Beanstalk.
* Dockerized Applications using Docker images using Docker files.
* Used Kubernetes to provide a platform for automating deployment, scaling and operations of application containers across clusters of hosts.
* Worked closely with Development teams and performance test engineers for EC2 size optimization and Docker build containers.
* Used build automation tools like ANT, Maven for building applications.

**Environment**: AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), GIT, VPC, SQL, Cloud Watch, AWS Auto Scaling, Cloud Formation, Chef, Ansible, Jenkins, Nagios, ELB, Shell Scripts, Unix/Linux Environment.

**Ananya Coreint Tech, Bangalore, India. Aug 2012 – Sep 2013**

**Linux Administer**

**Responsibilities:**

* Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Imported and managed multiple corporate applications into GIT.
* Involved in all projects that move to production and work closely with the Data Center, Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
* Provided end-user training for all Subversion (SVN) users to effectively use the tool.
* Jenkins is used as a continuous integration tool for automation of daily processes.
* Installed/Configured and Managed Nexus Repository Manager and all the Repositories.
* Administered, maintained Red Hat 4.0, 5.0AS, ES, CentOS 5.3/5.4 troubleshooting hardware, operating system, applications & network problems and performance issues.
* Installation and administration of VMware vSphere ESXi 6.5 environment Evaluated and implemented new hardware and software solutions that benefited architecture and operations implemented VMware SRM and troubleshot performance issues.
* Worked on VMware for Virtual server builds, increasing memory, CPU, adding disks, Maintenance on ESX hosts VM and server/storage migrations.
* Installing and upgrading virtual machine hardware version using VMware tools. Provisioning virtual machines and deploying virtual machines from Templates by cloning. Creating and deleting VM's snapshots.
* Assigning LUNs to ESX/ ESXi servers and creating data stores. Adding virtual machine memory and CPU.
* Use VMware vSphere vCenter Update Manager to apply patches to virtual machines and Virtual Private Networking (VPN) tools and techniques to maintain these VM's.
* Samba and Apache Web Services Performed different software changes in VMware environment on customer's servers. Followed up with Data Center personal for hardware related changes.
* Have tested various Linux Environments in the Development/Test Stages to help create a better standardized environment and resolutions of any problems if any occurred. Created and wrote Shell scripting and PowerShell for automating tasks.
* Installed, configured, and maintained HP-UX Linux and Solaris servers.
* Deployed latest patches performed Red Hat Linux, and Kernel Tuning.
* Created the Release process of the artifacts.
* Coordinated with development and third-party teams to perform PCI penetration testing and Vera code scanning every year on the source code.
* Have tested various Linux Environments in the Development/Test Stages to help create a better standardized environment and resolutions of any problems if any occurred. Created and wrote Shell scripting and PowerShell for automating tasks