**Prakash** Diagram

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# **PROFESSIONAL SUMMARY**

* Cloud and DevOps Professional with 8+ years of experience in comprising Software configuration management (SCM), Linux System Administration, Build/Release management, Continuous integration and continuous deployment, Docker container management using Kubernetes implemented fault tolerant and scalable solutions on amazon webservices.
* Working experience in SDLC, which includes both Agile and Waterfall model.
* Comprehensive understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations legacy and Micro services applications.
* Experience in working on source controller tools Subversion ( GIT ).
* Experience in software build tools (Apache Maven, Gradle).
* Experience in administrating Jenkins, developed pipeline scripts for declarative and multibranch pipelines.
* Experience in administering and configuring Nexus and Artifactory, created repository's for Maven, Gradle. Docker and helm build with Jenkins .
* Ability to build deployment, build scripts and automated solutions using scripting languages such as Python, Shell, etc.
* Good knowledge in bash/shell scripting .
* Experience in monitoring tools (Grafana, Prometheus and Dynatrace).
* Experience in logging tool (Splunk, ELK stack and cloud watch).
* Experience container orchestration with Docker and Kubernetes.
* Experience in implementing the cost optimized architectural designs, build, deploy and maintains business applications and critical infrastructure inside the AWS, Azure & Google Cloud platforms.
* Automated the Continuous Build process, monitored, maintained, and controlled software configurations in secured distributed environment.
* Proficient in trouble shooting complex build problems, release issue and environment issues in multi component environment.
* Self-motivated, quick learner takes independent responsibility to contribute and teamwork skills.
* Worked with all areas of development teams to ensure the build and deployment process serves better quality for the business.

# **EDUCATION**

Master’s in Computer Information Systems - Christian Brothers University , TN

Bachelor’s in Mechanical Engineering - Jawaharlal Nehru Technological University , India

# **PROFESSIONAL SKILLS**

**Build Tools** Gradle, Maven.

**Configuration Tools** Ansible, Terraform and CloudFormation

**CI Tools** Jenkins, cloudbees Jenkins

**Operating Systems** Windows7/Vista/XP /2003/2000/NT/98/95, Linux, Unix, Mac OS.

**Version Control System** GitHub, Bit bucket, GIT, Gitlab.

**Software Container** Docker, Kubernetes, and Helm.

**Monitoring tools** Prometheus, Grafana and Dynatrace

**Logging Tools** Splunk and ELK

**Repositories/Registries** Nexus, Artifactory, Docker registry and Quay

**Scripting Languages** Shell scripting and Python

**Cloud Services** Amazon Web Services, Azure & GCP.

# **PROFESSIONAL EXPERIENCE**

**Client : Align Technology Raleigh**

**Role : Cloud/DevOps Engineer (March 2021 – Present)**

Responsibilities:

* Building and managing accounts and services in AWS with control tower customizations, stack sets and CloudFormation.
* Creating fault tolerant and scalable Cloud IaC with CloudFormation and implementing portfolios and products in aws service catalog.
* Implemented and developed AWS BACKUP policies across AWS control tower accounts.
* Implemented a standardize Private certificate Authority across control tower to save the cost in aws.
* Developed and implemented tagging policies across control tower for cost optimization.
* Design, build and operate cloud infrastructure to enable reliable and rapid deployment of applications with effective monitoring, security, and resilient operations.
* Implemented a centralize certificate monitoring and alerting solution across control tower accounts.
* Participate in the creation and maintenance of development test, and production environments on Amazon Web Services (AWS) Cloud with a goal of high availability, fault-tolerance and scalability.
* Work closely with the architects and engineers to design networks, systems, and storage environment that reflect business needs, security requirements, and service level requirements.
* Able to mentor different teams across the various engineering practices including automation, product mindset, cloud/as-a-service approach, and infrastructure as code.
* Experience with GitOps, DevOps and CICD pipelines, Docker, Kubernetes and Terraform scripts.
* Partnering with security engineers and developing plans and automation to respond to new risks and vulnerabilities aggressively and safely.
* Hands-on design, analysis, development and troubleshooting of highly distributed large-scale cloud production systems and event driven, cloud-based services.

**Environment: Gitlab, Artifactory, Terraform, Helm, Jenkins, Python, Shell Scripting, Rancher2, Logz.io, Dynatrace, Boto3 and AWS.**

**Client : FI Investments Camas, WA**

**Role : Cloud/DevOps Engineer (Sep 2019 – Feb 2021)**

Responsibilities:

* Developed Cloud infrastructure as code(IaC) using terraform and CloudFormation.
* Create and maintain fully automated CI/CD pipelines using Jenkins scripted and Ansible playbooks.
* Implemented micro services Jenkins with aws ECS autoscaling as docker containers as slaves on ECS fargate with CloudWatch alarms.
* Created and configured Docker clouds in Jenkins to leverage containers as build slaves.
* Built an end-to-end pipeline for AWS Infrastructure deployment as (IaaS) which supports multi environment deployments naming ECS Fargate, EKS, Lambda, Ec2 and S3.
* Developed reusable automation stack using CloudFormation for AWS resources like Lambda, Elastic Beanstalk, EC2 Instances with autoscaling groups, S3, ECS Fargate, EKS.
* Developed ansible playbooks and templates for infrastructure automation and application deployments.
* Developed terraform custom modules and scripts for IaC pipelines to automate the resource provision in Amazon cloud.
* Developed Helm templates to deploy the application images to K8's clusters.
* Built and deployed docker images to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed in application delivery.
* Monitoring DevOps Tools and its infrastructure Jenkins, SonarQube, Artifactory, Ansible tower and application monitoring with Dynatrace.

**Environment: Git, Gitlab, Jenkins, Helm, EKS, Ansible, Terraform, Artifactory, SonarQube, Shell scripting, Dynatrace, ELK, Azure, GCP and Amazon web services**.

**Client : Lowes Charlotte, NC**

**Role : DevOps Engineer (October 2017 – Aug 2019)**

Responsibilities:

* Worked on Deployment, automation, management, and maintenance of infrastructure and pipelines for application deployment on Aws and on premises.
* Configure and setup CloudWatch metrics, logging using ELK, and monitoring on AWS platform.
* Designing, maintenance and management of tools for automation of different operational processes.
* Worked with git bash and GitHub for source code management.
* Worked with JFROG-Artifactory to store the build artifacts.
* Setup the ELK stack for logging and developed Grok scripts for log aggregation.
* Setup the Elastic search cluster to load balance the logs between elastic search nodes in different availability zones with zero downtime.
* Also set up the log stash cluster to load balance the log aggregation between different availability zones for high availability.
* Developed Jenkins pipeline scripts for applications deployments to on premises and AWS cloud.
* Developed Docker files for JDK base images for application development using Alpine.
* Created Prometheus Dashboards for applications hosted on-prem infrastructure.

**Environment: Git, GitHub, Docker, Jenkins, Artifactory, ELK stack, Grafana, Prometheus, Azure, GCP and AWS.**

**Client : American Water New Jersey**

**Role : DevOps Engineer (March 2017 – September 2017)**

Responsibilities:

* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, deployments, testing and infrastructure (infrastructure as code) using ansible.
* Migrated service from a managed hosting environment to platform as service including design, network layout, data migration, automation, monitoring, deployments and cutover, documentation, overall plan, cost analysis, and timeline.
* Primary duties include Build and Deployment of the java applications onto different environments DEV/IT, UAT, Production and DR environment of Linux Servers.
* Setup continuous integration and continuous deployment pipelines for legacy and spring boot (Micro services) applications.
* Ran Ansible scripts to provision Dev servers and develop Ansible playbooks the entry point of provisioning where the automation is defined tasks using YAML format.
* Managed SVN & GIT repositories for branching, merging, tagging and resolved merging issues during rebasing and re-integrating branches by conducting meetings with development Team Leads. • Develop the Ansible playbooks roles to automate the deployment of applications to different Prod/Perf/QA Environments and managing Ansible tower. • Used Jenkins for Continuous Integration and deployment into WebSphere Application Server. Deployed monitoring systems via Nagios to provide operations visibility.
* Worked with amazon Elastic Search for built in integration with the Kibana, Log Stash. • Assisted Engineering team with expanding the security requirements on Linux Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Deploy and monitor scalable infrastructure on cloud environment Amazon web services (AWS) using CloudFormation and Azure using Terraform.

**Environment: GIT, Bit bucket, Maven, Jenkins, Ansible, Groovy, Nagios, PowerShell, Vagrant, Web logic Application Server, Nexus Artifactory, Azure DevOps, AWS.**

**Client : Wells Fargo Charlotte, NC**

**Role : Build and Release Engineer (October 2015 – February 2017)**

Responsibilities:

* Installed and Administered Jenkins Continuous Integration and build pipelines.
* Created PowerShell Scripts using Power CLI to interact with VMware vSphere for provisioning and removal of VM's.
* Supported the team by providing documentation and installation instructions assistance for the non-production environments.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming Designing and implementing for fully automated server build management, monitoring and deployment by Git, Jenkins.
* Designing and implementing fully automated server management, monitoring and deployment By Using puppet and Splunk.
* Setup Urban Code Deploy workflows for automated deployment.
* Participated in the release cycle of the product which involves environments like Development, QA and UAT.
* Involved in troubleshooting the automation of Installing and configuring JAVA applications in the test and pre-production environments.
* Created & maintained puppet manifests for continuous deployment of resource in SITE/PAGING and PRODUCTION ENVIRONMENT.
* Participated in weekly release meetings with Technology, stakeholders to identify and mitigate potential risks associated with the monthly releases.

**Environment: Subversion, GIT, Gitlab, JBoss, Maven, Jenkins, JIRA, LINUX, Urbancodedeploy, Puppet, PowerShell, SoapUI, Shell Scripting, Bash, JFrog Artifactory.**

**Client : RR Consultancy Services Hyderabad, India**

**Role : Linux Administrator (June 2013 – July 2014)**

Responsibilities:

* Participated in the release cycle of the product which involves environments Development, INT, and QA.
* Strengthening security by implanting and maintaining network address Translation in company's network. •
* Worked with Centos, Red hat Linux monitoring process and responsible for creating and managing user accounts, disk Spaces, Security.
* Involved in installation and upgradation of Red Hat Linux using kick start servers. • Configures the Security management, NFS, FTP, DNS and remote access.
* Worked on integrating SVN into the continuous integration (CI) environment with Hudson. Developed a continuous deployment pipeline using Hudson, Ruby/shell scripts. •
* Create Hudson Slave to distribute the load across the multiple windows and Linux servers. • Importing the data in Splunk through inputs. Conf, Props. Conf and transforms. Conf. • Automation/Simplification of Digital Guarding process through SPLUNK.
* Responsible for configuration, maintenance, and troubleshooting Portal.
* Used SVN for Software Configuration management and maintaining the versions of code.
* Wrote the PowerShell scripts to automatically restart agents on LINUX machines.
* Manage java applications across Unix/Linux servers by developing automate scripting shell. • To automate the system operations created puppet manifests and modules.
* Developed Shell/Batch/Perl Scripts for automation purpose.
* Resolving merging issues during build and release by conducting meetings with developers and managers.
* Attended the Minor/Major Event change control meetings to get necessary approvals at for the deployment request.
* Used Perl/Shell to automate build and deployment Process.
* Coordinated with developers, Business Analyst and Mangers to make sure that code is deployed in the Production environment.

**Environment: SVN, ANT, Hudson, UNIX, Linux, Perl Scripts, PowerShell, Bugzilla, Web Sphere Application Server, JIIRA, UNIX Shell Scripting, Anthill Pro, Nexus.**