**Uppara Venkatesulu**

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**Objective:**

I am looking for a challenging position in an esteemed organization where my experience, technical and analytical skills are utilized for continuous growth and advancement of the company. I am a person with a positive attitude, have sincerity towards my work and ability to perform under pressure.

**Professional summary:**

An ardent professional with an experience over 4.6 yeras in IT arena, comprising of automating, configuring, deploying on cloud environment and data centers. Specialized in areas of DevOps, (CI/CD) pipeline, Build and Release management, AWS and Linux/Windows and Application Testing.

* Experience providing infrastructure automation services within public and private cloud to build, configure, manage and deploy multiple number of applications in sdifferent platforms.
* Proficient in strategy and practical implementation of AWS cloud-specific services which include **EC2, S3, EBS, EFS, ELB, EMR, ECS, IAM, Lambda, API Gateway, Route53, RDS, Dynamo DB and Security groups on AWS** etc..
* Good knowledge with installation of AWS CLI (command line interface) to control various AWS services through **SHELL** Scripting.
* Good knowledge on container-based deployments of **Micro-Services** using **Docker** and **Kubernetes**.
* Handled large volumes of container cluster with **Docker** and Kubernetes.
* Virtualized the servers using the **Docker** for test environments and dev-environments needs and configuration automation using **Docker container**.
* Expert in creating Docker files, Docker images & containers Docker hub, installation and configuring Kubernetes and clustering them.
* Expertise in designing, development and deploying applications on to several cloud-based solution using configuration management tools like Ansible.
* Experience in writing Playbooks using YAML scripts on Ansible used it for configuration management and orchestration of IT environments and used Ansible for deploying or updating the web application servers’ code data.
* Involved heavily in setting up the **CI/CD pipeline using Jenkins, Maven, Nexus, Ansible, Terraform and AWS**.
* Expertise in using build tools like **Maven** and **ANT** for the building of deployable artifacts such as war & jar from source code.
* Extensive experience in branching, tagging and maintaining the version across the environments using SCM tools like GIT and Subversion (SVN) on Linux and Windows.
* Configured Continuous Integration (CI) tools Jenkins/Hudson from scratch. Installed Jenkins, created build jobs, set up distributed build systems, Handle custom Plugins, Administration, Backup and Migration activities.
* Daily activities included, delivering daily and nightly builds for the testing teams, supporting SCM requests, maintaining code stability using C.I methodologies, code merging, deployments and troubleshooting other day-to-day issues.
* Good knowledge in analyzing bugs, interacting with development and QA teams to fix the defects and build failures.
* Sending daily build and deployment status mails to related teams.
* Experience in Junit, Sonar, Cobertura, Jira.
* Good hands on experience with Tomcat application servers for deployments.
* Good experience in SHELL scripting.
* Accelerate application delivery with greater productivity and reliability.
* Good Hands on experience with Unix/Linux.
* Good knowledge in planning and updating development, QA and staging environments with different code bases, based on requirements.

**Technical Skills:**

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| Cloud Environment | Amazon Web Services (AWS) |
| Containerization Tools | Docker and Kubernetes |
| Configuration Management | Ansible |
| Continuous Integration | Jenkins, Bamboo, Hudson, Github Action |
| Build tools | Maven, Ant, Gradle |
| Version Control | Git, Bitbucket, SVN |
| Monitoring tools | Nagios, Grafana, Prometheus |
| Ticketing tools | Jira, Scrum, Bugzilla, ServiceNow |
| Web servers | Apache Tomcat, Nginx, Web Sphere, JBoss |
| Virtualization tools | VMWare, VirtualBox, Hyper-V, Vagrant |
| Operating Systems | RedHat, CentOS, Ubuntu, Debian, & Windows |
| Repository management tools | Nexus, JFrog Artifactory |
| Testing tools | Selenium, Junit |
| Programming & Scripting Languages | Python, Bash, Shell, Ruby, Perl, XML PowerShell |
| Databases | SQL Server, MongoDB, Oracle, MySQL, PostgreSQL |
| Networking | HTTP, HTTPS, TCP/IP, UDP, DNS, FTP, SSH, SNMP |
| Development Environments | Terraform CloudFormation Packer |

**Professional & Onsite Experience**

* Working as DevOps Engineer at DXC Technologies, Bangalore, from May 2018 to till now.
* Worked as DevOps Engineer at Aricent, Bangalore from 2017 to 2018.
* Worked as Build and Release Engineer at Betsol, Bangalore 2016 to 2017.

**Certifications:**

* AWS Certified Solution Architect – Associate

**Professional Experience:**

**Project : DXC Assure Digital Platform(Digital Insurance) May 2018 to Till date**

As a DevOps Engineer, I am responsible for design, build, monitor, and enhance services and production environment.

* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services.**
* Used **EC2, Auto-scaling** and **VPC** to build secure, for highly scalable and flexible systems that handled expected and unexpected load bursts.
* Used Amazon **Route53** to manage DNS zones and give public DNS names to elastic load balancers (**ELB**).
* Implemented **S3** versioning and lifecycle policies, backup files and archive files in **Glacier**.
* Responsible for design and maintenance of the **Git repositories**, views, and the access control strategies and Managed Git repositories for **branching, merging**, and **tagging**.
* Analyzed the ANT build projects for conversion and converting to Maven build projects.
* Implemented AWS solutions using **EC2, S3, RDS, EBS, and Elastic Load Balancer, Auto-scaling** groups, Optimized volumes and **EC2** instances.
* Integrated GIT into Jenkins to automate the code checkout the process.
* Installed and configured Jenkins for Automating Deployments and providing automation solution.
* Involved in DevOps **migration/automation** processes for build and deploy systems.
* Responsible for day to day Build and deployments in pre-production and production environments.
* Used Git for Developers helping to resolve all Build issues like **merge conflicts**, compilation errors, missing dependencies, Branching/Merging/Tagging.
* Implemented & Maintained the Branching and **Build/Release** strategies utilizing GIT source code management.
* Experience in using **Git Webhooks** and Poll SCM with Jenkins to automate Jenkins tasks and responsible for writing groovy scripts for Jenkins pipelines.
* Responsible for installing Jenkins master and slave nodes. Configured Git with Jenkins and schedule jobs using **POLL SCM** option.
* Implemented data warehouse solutions in AWS Redshift, worked on various projects to migrate data from the database to AWS Redshift, RDS and used S3 to store the backups.
* Working in AWS cloud environment migrations, installations, and backup maintenance.
* Responsible for automated Scheduled Builds/Emergency Builds and Release using Maven for an Enterprise application (J2EE).
* Maintained build related scripts developed in the shell for Maven builds. Created and modified build configuration files including POM.xml.
* Managed Maven project dependencies by creating parent-child relationships between Projects.
* Designing and implementing **CI system:** configuring Jenkins servers, Jenkins nodes, and Hudson.
* Responsible for User Management, Administration, Group Management, Slave Management, new job setup in Jenkins.
* Build Java code on to different Jenkins servers as per the schedule and Integrated Jenkins with GitHub.
* Wrote several **Ansible playbooks** for the automation that was defined through tasks using YAML format and run Ansible Scripts to provision Dev servers.
* Used Ansible, Python/Shell scripting for building and deploying java application to target environments.
* Evaluated **Docker container** technology to replace some virtual environments.
* Virtualized the servers using the **Docker** for the test environments and dev-environment needs.
* Built and Deployed Java/J2EE to a web application server in a Kanban continuous integration environment and automated the whole process.
* Installed and configured JFrog Artifactory repository, published snapshot and release versioned artifacts into **Artifactory**.

**Project : SEARS Online Web Portal Dec 2017 to May2018**

**Key Deliverables:**

* Provisioned the highly available EC2 Instances, VPC/S3/SQS/SNS based infrastructure
* automation using Terraform and cloud formation.
* Adopted Terraform, written Templates for AWS IaaC to build staging and production environments.
* Created and managed IAM users & groups, defining roles and policies and Identity providers and used them to restrict access to certain buckets.
* Installation, configuration, and maintenance of different Linux Distribution servers like Debian, RHEL, CentOS and SUSE Servers at multiple Data Center.
* Experience with configuring and managing Elastic Load Balancing (ELB) to implement fault tolerance and avoid single point of failure of applications.
* Apache Maven is used as build tool and Nexus is used as a source for artifacts needed for a build, and a target to deploy artifacts generated in the build process.
* Created a fully Automated Build and Deployment Platform and coordinating code builds, promotions and orchestrated deployments using Jenkins, Ansible and GIT.
* Responsible for the Plugin Management, build and deploy on Jenkins Pipeline Setup and End-End Job Setup of all the projects.
* Used CloudFront to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Implemented a 'server less' architecture using API Gateway, Lambda, and Dynamo DB and deployed AWS Lambda code from Amazon S3 buckets. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket.
* Automated AWS volumes snapshot backups for enterprise using Lambda.

**Project: SAL Nextgen June 2016 to Dec2017**

**Key Deliverables:**

* Monitoring Build and Deployment statuses.
* Primary responsibilities are supporting all the teams in building and deployment of applications in different environments like Dev, QA, Stage and Prod.
* Worked with different application teams to understand, analyze their current process, tools, techniques, workflows and involved in evaluation and finalization of state of art tools.
* Manage a Continuous Integration (CI) server (Bamboo) to configure Project Builds and ensure a consistently high-quality build.
* Implemented automated build and deployment process for applications and re-engineering set up for better user experience, and leading up to building a continuous integration system.
* Introduced Docker into the CI/CD pipeline by creating working images of the environments so that we can quickly create demo environments. Build once and use forever type.
* Resolved multiple build and deployment issues and provided best solutions to prevent reoccurrence of same issue.
* Providing daily technical support, re-engineering and administration of an enterprise Configuration Management system that supports multiple development applications.
* Defining and communicating policies and procedures for build and deployment.
* Management of Users and Groups and troubleshoot client spec issues and user issues. Use of the ticketing tool JIRA for sprints and Rally for backlog grooming.
* Migrating different type of environments by looking into improvements and advantages of tools with regards to the project requirements.

**Education:**

* B.Tech ECE from Jawaharlal Nehru Technological University (JNTU), ANANTAPUR, ANDRAPRADESH, INDIA.