

## DevOps Engineer

**A.Akhil Bharath**

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### Objective

To work in a challenging environment through which I can utilize my skills and knowledge for the development of the organization and in turn my career.

### Summary of Experience:

- Having **4** years working experience as **DevOps Engineer** and working on different levels automation tools.
- Working on various version control systems like **Git**, **SVN**, **Build** tools like **Maven**, **Ant** **Continuous Integration** Tools such as **Jenkins**, containerization tool **Docker**, Configuration management tool **Chef** and **Shell** scripting.
- Strong experience in **Branching** and **Merging** strategies.
- Good knowledge in using **Maven** scripts to automate the code compilation and deployments.
- Wrote **pom.xml** files for automating web applications builds, test cases and deployments.
- Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using **GIT** source control.
- Working knowledge on merging code lines in the **GIT** and resolved all the conflicts raised during merges.
- Implemented & maintained the branching and build/release strategies utilizing **GIT**.
- Initiated **C.I process** in my project and setup **Jenkins tool from scratch**. Created new build jobs, setup master/slave concept to distribute the load and run different builds with different configurations.
- Created **Pipelines** using **Jenkins's file**. Also worked on manual pipelines.
- Configuring pre and post build actions in **Jenkins** as per project requirements.
- Automate the build Process Using **Jenkins** jobs.
- Experience on setting up and managing **Docker** private repository.
- Having experience in creating custom **Docker** Images using **Docker** file.
- Experience working on several **Docker** components like **Docker Engine**, **Hub**, **Container** and **Docker Registry**.
- Automated application containerization by writing **Docker** file and creating images. Application environment will be automatically build with given number of containers with application setup out of box.

- Worked on various tools which include Build Tools- **Maven**, Continuous Integration Tools- **Jenkins** and Servers-**Apache Tomcat**.
- Experienced in Build, Deployment, and Configuration and Release management.
- Proficiency with build and continuous integration system concepts.
- Experience on deploying artifacts like **WAR** and **EAR** into application servers **Apache Tomcat** and **Web logic** servers.
- Setup **Chef** in production environment. Good knowledge with end-to-end production **Chef Environment**.
- Experience in Writing Cookbooks in **Ansible**.
- Developed cookbooks for application deployments with **tomcat**, **jdk**, **war** file and post deployment configurations.
- Knowledge on **AWS-EC2 instance**, **ELB**, **Auto-scaling**.
- Responsible for installing and configuring **Docker** in physical as well as cloud environments.
- Well aware of the advantages, architecture and complete work flow of **Docker**.
- Good Knowledge in **Python Scripting**, Experience in Writing Scripts.
- Good knowledge in each and every component of **Docker**.
- Installed and configured **K8S master and K8S nodes** and established communication between them.
- Good experience in writing **yaml manifest** field for creating **Deployments** and **Services** in **Kubernetes**.
- Good experience in setting up **NodePort**, **ClusterIP** and **LoadBalancer** type **Kubernetes Services**.
- Good experience in setting up **Docker** cluster in **Google cloud** using **GKE Service**.

### **Working Experience:**

Working as a **Zopper solution Pvt Ltd, Bangalore**, from March 2018 to till date.

Worked as a **Devops Engineer** **zopper solustin pvt Ltd** from February 2018 to 2022 april.

### **Educational Qualification:**

Graduated **Bsc( computer science)**, from **sarva bharathiya shiksha peeth, Thumkur**.

### **Technical Skill:**

<b>Application Server</b>	<b>Apache Tomcat</b>
<b>Cloud Services</b>	<b>AWS EC2 ,S3, GKE</b>
<b>SCM Tools</b>	<b>GIT, GitHub</b>
<b>Build Tools</b>	<b>Maven, ANT</b>
<b>Continuous Integration tool</b>	<b>Jenkins</b>

<b>Configuration Management Tool</b>	<b>Ansible</b>
<b>Monitoring Tool</b>	<b>Data dog</b>
<b>Web Server</b>	<b>Apache Tomcat, Nginix</b>
<b>Database</b>	<b>MySQL</b>
<b>Scripting Languages</b>	<b>Python scripting</b>
<b>Operating Systems</b>	<b>Windows, Redhat Linux, Ubuntu</b>
<b>Misc.</b>	<b>Jira</b>
<b>Containerization &amp; Orchestration</b>	<b>Docker,</b>

### **Project Profile:**

#### **Project #1:**

**Project Name: SEARS (E-commerce Online Portal)**

**Client:** Search Emergency and Administrative Radio System

**Role** : **Devops Engineer**

**Technology** : **Ubuntu, GIT, Maven, Jenkins, Docker, AWS, Ansible, Nexus, Python Scripting**

**Duration** : April 2021 till date

#### **Description:**

Project is about maintaining ecommerce website of Sears 24/7. As major part of Sears business is based on Ecommerce site should available all the time, our team job is to build and release code for deployment on appropriate servers to Deployment team. Site will be developed in 4 stages- Integration stage, testing (QA) stage, staging (advanced testing) stage and production.

#### **Roles & Responsibilities:**

- Installation, Configuration, Maintenance, experience of source code management systems Subversion, GIT.
- Administration/Maintenance experience of continuous integration build engines using Jenkins.
- Experience with build tools like Ant and Maven.
- Setup Docker in all QA environments and managing **Docker** private repository.
- Created custom **Docker** Images using Docker file for deployments.
- Good knowledge in several **Docker** components like Docker Engine, Hub, Container and Docker Registry.
- Deployed containerized application in Docker in on-premise and Google cloud using GKE service.
- Configured **NodePort, ClusterIP and LoadBalancer** type Kubernetes services.
- Automated application containerization by writing Docker file and creating images. Application environment will be automatically build with given number of containers with application setup out of box.
- Experience in Writing Cookbooks in **Ansible**.
- Implemented **Ansible** for QA deployments and new server provisioning.

- Created pipelines for continuous integration builds and deployments in Jenkins.
- Good knowledge in writing Jenkins file.
- Written the Build Scripts using **Python Scripting**.
- Responsible for creating branches, tags and merging the code from one branch to another.
- Playing the role of Release Engineer by supporting developers for subversion configuration spec creation, branching, and deliveries to the integration branch.
- Worked closely with Developers, QA and project management for smooth scheduled releases.
- Created build.xml, JAR, WAR, EAR Files through Ant.
- Written **Python scripts** for deployment automation.
- Participated in the application builds and deployments to Dev, QA, STAG and Prod environments.
- Having Knowledge on the AWS Services EC2, S3, VPC.
- Responsible for identifying, troubleshooting and resolving problems with the build process using Jenkins and ensures that the release has been accepted by all parties.
- Participated in Release meetings to finalize Release with developers/QA/Project Management and discuss backup plan..

## **Project #2**

### **Project Name: VallyMoni**

**Client** : Boyne valley group, Ireland

**Role** : DevOps Engineer

**Technology** : GIT, Maven, Ant, Jenkins, Tomcat, Windows, Linux, Docker, Nginx, Apache, Python scripting, Jira, Python Scripting.

**Duration** : March 2020 to April 2021

### **Project Description:**

**VallyMoni** is **ERP based** application used to maintain organization infrastructure. This application is used to keep track of internal business activities over different branches of Boyne valley group. This is an internal application used by Boyne Vally group to know about the business status periodically over multiple branches across Ireland. Boyne Vally group is running various businesses across Ireland as well as across the world in different domains.

### **Roles & Responsibilities:**

- Develop and automated, continuous, build process that reviews the source code, identifies build errors and notifies appropriate parties to expedite/facilitate synchronization to the latest build using Jenkins
- Setup and configuring Plans in continuous integration tool Jenkins for project builds
- Performed GIT branching and merging activities.
- Automate & monitor daily project development builds by using build tool Jenkins
- Building numerous applications for DEV/ SIT/ UAT/ PROD Env.
- Experience in troubleshooting and researching root cause analysis for application issues
- Creating branches, tags and merging the code from one branch to another.
- Providing solutions to developers build failure related issues.
- Integrated **Maven-Jenkins-Nexus** for continuous integration and deployment
- Setup a private **Git** repository over HTTP using Apache2 server.
- Setup **Git** repository using GitHub.
- Written **Python** scripts for deployment automation.
- Automated backup process using Maven resources in pom.xml
- Documenting Installation and Deployment plan for deployment/ release of sources in all environments.
- For **Build Automation** we are writing scripts using **Python Scripting**.
- Created Docker containers for testing environments using Docker images.
- Wrote recipes and cookbooks for configuring QA environments.
- Participated in installation & configuration of Apache/Tomcat servers
- Active participation in Build and release process.

### **Project #3**

**Project Name:** #Waste Management (WM\_MAS)

**Organization:** ZOPPER SOLUSTION PVT LTD,BENGULORE

**Duration:** Feb 2019 – Feb 2020

**Role** : Devops Engineer

**Technology:** Maven, Jenkins, GIT, Tomcat, Windows, Linux, Python scripting, ANT, Jira, Nginx

#### **Description:**

Waste Management, Inc. is the leading provider of comprehensive waste and environmental services in North America. Headquartered in Houston, the company serves nearly 20 million municipal, commercial, industrial, and residential customers through a network of 367 collection operations, 355 transfer stations, 273 active landfill disposal sites, 16 waste-to-energy plants, 104 recycling plants, and 111 beneficial-use landfill gas projects.

**Roles & Responsibilities:**

- Managing source code and administrative version control through **GIT**
- Maintain track of different releases that are being carried over in different environments.
- Creating War/Ear files using **Maven**
- Making Application, Reports and Script ready for the Release on time.
- Automate the build Process Using **Jenkins** jobs. Date wise Daily keeping track all the Script.
- Troubleshooting application related issues by log verification.
- Verify Deployments logs to check for successful deployments.
- Documentation of patch process and build/release Process.
- Experience in bug tracking and analyzing test results and prepared Release Notes.
- Performing deployments to multiple environments like **Dev, QA, UAT** & Production environments.
- Involved in build/Release management and carried out the quality product in UAT and Production.

Place: **Bangalore**  
**BHARATH)**

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