

BOLLA MADHUSUDHANA RAO

Email: madhubolla2002@gmail.com

Mobile: 8106968941

GitHub: <https://github.com/madhu123-4>

LinkedIn: <https://www.linkedin.com/in/madhusudhana-rao-bolla-19a3b22b8/>

Location: Hyderabad, Telangana.

Nationality: Indian.

Career Objective

- Seeking an entry-level position to begin my career in a high-level professional environment, and secure a responsible career opportunity to fully utilize my training and skills while making a significant contribution to the success of the company, and expand my learning, knowledge and skills.

Working knowledge

- Expertise on **Amazon Web Services (AWS)** like **EC2, S3, VPN, IAM (Identity Access Management)ELB, Auto Scaling, Snapshot, SNS, EBS, ECR and EKS**
- Proficiency in **DevOps Tools - GIT, Maven, Jenkins, Docker, Ansible, Kubernetes and Terraform.**
- Good operating system knowledge on **Windows, Linux.**
- Comprehensive Knowledge on Ansible – Static and Dynamic Slave Configuration, where slaves' info is pull dynamically fromAWS cloud.
- Understanding on playbooks by using YAML and Roles for making configuration changes in Slaves.
- Good hands-on knowledge on Docker – Writing docker file for application deployment and build images on docker file and pushing to AWS ECR (private registry).
- Good hands-on Knowledge on Docker volumes – for persistence storage, Docker Networking and Docker Compose – multi container operations for multi services.
- Proficiency on Kubernetes for setup cluster using eksctl and client as Kubectl and deployment files and service filesfor creating Deployment, pods and Services.
- Good hands-on knowledge on version control System such as GIT and Creating branches and merging the branches and deploying them into GitHub.
- Having knowledge using Maven as build tool for building and deploying Artifacts (Jar, war.) packages fromthe source code.
- Having knowledge on Jenkins and written pipelines by using groovy scripting to integrate all otherservices and tools in process.
- Creating our own VPN infrastructure in AWS cloud platform and configuring the subnets and all.
- Good in creating Storage Buckets in S3 and Static website hosting and the bucket life cycles.
- Good hands on creating IAM roles and the Policies and assigning them to EC2 machines, and Group policies.
- Hands-on Knowledge on creating Load balancing using auto scaling feature.
- Good in Configuring and Maintaining, Apache Tomcat server, and HTTP Server.
- Very good hands-on knowledge on EC2 like creating and managing instances of all types.
- Having Knowledge on S3 bucket like version control, Life cycle management, Cross region replication.
- Creating Elastic Load Balancer and attaching instances to that ELB
- Configuring Auto Scaling groups and setting policies.

Strengths and personal Skills

- Have excellent communication skills in English & Telugu.
- Team Player and Adaptability of Environment.
- Time Management & Good Leadership.
- Reading Blogs and Repositories
- Self- Motivated by Solving some Code chef problems

Technical Skills

- **Operating system** : Linux, Windows
- **Cloud** : AWS
- **Version control** : GIT, GitHub
- **Build Tools** : Maven
- **Configuration Management** : Ansible
- **Containerization tool** : Docker, Kubernetes
- **CI/CD** : Jenkins
- **Scripting Language** : Shell
- **Infrastructure Automation** : Terraform
- **Programming Language** : Python

Roles and Responsibilities

- Maintained GIT repositories for automation code and configuration.
- Automate the build Process using Maven and Jenkins.
- Building code artifacts, deployment and automation using Jenkins.
- Managing the multiple release deployments to different environment Dev & QA, UAT.
- Experience in writing ansible playbooks to configure servers, maintain inventory and automate application deployment.
- Designed and developed automated deployment based on Docker and Ansible for all the services.
- Involved in Deployment of the application using Tomcat.
- Configured the Jfrog artifactory repository with Jenkins.
- Creating CI/CD pipelines by integrating Git, GitLab, Maven, Jenkins, Ansible and AWS (provisioning).
- Used Jenkins pipelines to builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
- Building/Maintaining Docker container clusters managed by Kubernetes, Git, Docker, on AWS, Utilized Kubernetes, and Docker for the runtime environment of the CI/CD system to build, test, deploy.
- Involved in development of test environment on Docker containers and Docker configurations using Kubernetes.

Achievements

- Completed Training and Internship on AWS and DEVOPS at SRISH TECHNOLOGIES, Hyderabad.
- Attend a Free “DevOps Engineering Nanodegree” Program in Udacity

Educational Background

- B-TECH (70%)
 - Sir CR Reddy College of Engineering College -2023.
- DIPLOMA (78%)
 - Aditya Institute of Technology and Management College -2020.
- SSC (9.2)
 - Z.P. Highschool-2017.

Experience

Open-Source

Dec 2023 – Present (Remote)

Contributor, Maintainer for DevOps-shack group

I worked on various DevOps and AWS Cloud projects for scripting, automating, and resource utilization and made those open to all, then managed repositories, fixed documents, and did code reviews. Helped folks to make their contributions.

Projects:

Cloud Cost Optimization — AWS

Implemented Lambda function that fetches all EBS snapshots owned by the same account ('self') and also retrieves a list of active EC2 instances (running and stopped). For each snapshot, it checks if the associated volume (if exists) is not associated with any active instance. If it finds a stale snapshot, it deletes it, effectively optimizing storage costs.

Netflix Clone Deployment via Kubernetes— EKS

Deployed a Netflix application by creating a cluster in Kubernetes and using Docker, and Jenkins, orchestrating the containerized application across a Scalable Kubernetes cluster. Implemented automating Scaling and monitoring solutions, resulting in application performance and Scalability.

End to End CICD Implementation — Jenkins Implemented an end-to-end CI/CD pipeline for java-based application using Jenkins declarative pipelines which includes various stages such as Build, Unit testing, Static code analysis, SAST, DAST, Creation of Docker Images, Deployment on Kubernetes platform using Argo CD.

Kubernetes End to End project on EKS

Deploy a 2048 Game application by using Kubernetes by creating A EKS Cluster And setting up AWS Environment for EKS Like Creating a IAM Users and Preparing Network and Security for AWS

Declaration

- I hereby declare that all the information furnished above is true to the best of my knowledge and belief.

(BOLLA MADHUSUDHANA RAO).