

# Mokshada Deshmukh

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## DevOps Engineer

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### PROFESSIONAL SUMMARY:

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- IT Professional with 3+ years of overall work experience including **Build, Release** and **DevOps Engineering** in **Automating, Building, and Deployment**.
- Worked on **Red Hat Linux, Ubuntu, Centos, and Windows** environments
- Maintenance and Support for Production, **QA, and Staging** Environments
- Managed **GitHub repositories** and permissions, including branching and tagging
- Configuring **Jenkins job** with related Plugins for **Testing**, Artifactory, and Continuous Deployment to accomplish the complete CI/CD
- Automated build and deployment using Jenkins, and **Maven** to reduce human error and speed up production processes
- Experience in using **Tomcat Web application server** for deployments
- Hands-on writing **Docker files**. Having experience in building the **Docker** images from Docker file
- Deploying class files in **jar** files based on request
- Handling and monitoring all phases of Build activities using CI tools like '**Jenkins**' .
- Collaborated with cross-functional teams to design and implement **CI/CD** pipelines for automated testing, deployment, and monitoring of **microservices applications**.
- Good Knowledge of container orchestrating tools like **Kubernetes**.
- Experience with AWS Services such as **EC2, S3, VPC, IAM, EBS, RDS, EKS, and CloudWatch**.
- Ability to work closely with teams, to ensure high quality and timely delivery of **builds** and **releases**.
- Monitoring remote hosts, and servers by using **CloudWatch Monitoring**
- Ability to work closely with teams, to ensure high-quality and timely delivery of **builds** and **releases**
- Proficient in basic **Bash Scripting**, enabling the creation of simple **scripts** in bash
- Experience working on several **Docker** components like **Docker Engine, creating Docker images, Docker Registry** and **handling multiple images** primarily for middleware installations
- Worked on Service Now and **Jira** ticketing tools

### TECHNICAL SKILLS:

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- **Cloud Technologies:** Amazon Web Services (AWS)
- **Languages:** Shell Scripting, Groovy (Jenkins Declarative Pipeline), Yaml
- **AWS Services:** EC2, S3, VPC, IAM, RDS
- **Monitoring Tools:** AWS Cloud Watch, Grafana, Prometheus,
- **Version Control:** Git and GitHub
- **CI/CD Tool:** Jenkins
- **Containerization:** Docker, Kubernetes,
- **Infrastructure as Code (IAC):** Terraform
- **Build Tool:** Apache Maven
- **Code Quality Tool:** SonarQube

### EDUCATION:

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#### Bachelor of Engineering – Information Technology

2018 - 2020

Bharti Vidyapeeth's College of Engineering for Women, Pune

#### Diploma in Computer Engineering

2015 - 2017

Government Polytechnic, Khamgaon

## WORK EXPERIENCE:

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Smart Software Services Pvt Ltd, Pune

DevOps Engineer | June 2021 – Present

### Project 3:

June 2023 – Present

**Project Name:** Infrastructure Provisioning Using Terraform

The project includes setting up VPC, subnets, security groups, EC2 instances, RDS databases, S3 buckets IAM roles, Lambda.

#### Roles Responsibilities:

- Write, test, and maintain Terraform code to automate infrastructure provisioning.
- Create reusable Terraform modules to standardize resource creation.
- Provision and configure environments (development, staging, production) using Terraform.
- Set up networking components (VPC, subnets, security groups) and ensure proper connectivity.
- Configure and manage storage solutions (S3, EBS, RDS) as required by the applications.
- Integrate Terraform with CI/CD pipelines using tools like Jenkins.
- Automate the deployment process and ensure seamless updates to infrastructure.
- Monitor pipeline execution and troubleshoot any issues that arise during deployment.
- Implement IAM roles, policies, and security groups to ensure least privilege access.
- Set up monitoring and logging for infrastructure using CloudWatch.

### Project 2:

Jan 2022 – May 2023

**Project Name:** William Blair's Investment

**Domain:** Investment Banking

**Skills:** Git, GitHub, Maven, Jenkins, Cloud Watch, Ansible, Terraform, Docker, Kubernetes, Apache Tomcat, Linux, AWS, Prometheus

#### Roles & Responsibilities:

- Using **Git**, creating repositories, new users and giving permissions to users to access the repository
- Create **branches** and participate in merging
- Enabling **Git** tagging through a pipeline for every released component. Resolve problems related to Git
- **Maven** is used as a build tool to build a source code
- Deployed **EAR, JAR, and WAR** in **Tomcat** Application Servers in Linux Environments
- Installed required **Jenkins** plug-ins. and implemented Jenkins slave
- Configure Jenkins jobs for nightly and milestone builds
- Creating and maintaining **Jenkins jobs**
- Responsible for creating the Jenkins pipelines for Automation job creation. Resolve build-related issues
- Deploying applications on **Docker Container and writing Docker** files.
- Configuration of **SonarQube** with Jenkins
- Assisted in adopting Infrastructure as Code (**IAC**) methodologies, including writing **Terraform** scripts for automating cloud infrastructure provisioning.
- Designed, developed, and maintained **microservices**-based applications, utilizing technologies such as **Docker, Kubernetes**
- Amazon **EC2** setting up instances, VPCs and security groups
- Built **S3 buckets** and managed policies for s3 buckets and used S3 bucket and Glacier for storage and backup on AWS and Taking snapshots of EBS volumes
- Creating users and **managing permissions**, creating users, roles and managing permissions
- Configured and maintained the **monitoring** and alerting of production and corporate servers/storage using **Cloud Watch**

**Project 1:**

June 2021 – Dec 2021

**Project Name:** Single Source Billing Solutions**Domain:** Telecom Billing**Skills:** Linux, Aws Cloud, Docker, CloudWatch, CloudTrail, S3, VPC, SNS, RDS, Git, GitHub, Maven, Ansible, Jenkins, Grafana**Roles Responsibilities:**

- Infrastructure Monitoring with the help of CloudWatch and CloudWatch logs
- Managing Docker containers for different Environments. (DEV, STAGE, PROD etc.)
- Setting up SNS topics for email, Creating and maintaining AWS Infra.
- Copying Server Logs on to S3 for Backup, also maintaining S3 data lifecycle
- Creating CloudTrail for Monitoring user activity for Compliance purposes
- Created VPC Peering Connections between QA and UAT networks for private subnets
- Implemented Infrastructure as Code (IAC) practices using Terraform to automate the provisioning and management of cloud resources, resulting in increased efficiency and reliability.
- Creating Jenkins CI/CD Pipeline for all the branches
- Source code management of both the development team and also for QA framework in GIT
- Creating and maintaining EC2 machines, creating AMI, and EBS snapshots.
- Branching, Tagging, Release Activities on Version Control Tools: GIT
- Collaborated with team members to troubleshoot and resolve microservices architecture and infrastructure issues.
- Created Highly Available Environments using Auto-Scaling, Load Balancers
- Design the overall Virtual Private Cloud VPC environment including server instances, storage instances, subnets, availability zones etc.