

# HARSHIT KAUSHIK

As an enthusiastic candidate, I am looking for a DevOps Engineer and AWS Cloud Engineer role. Skilled in collaboration and independent work, with a strong drive for innovation, problem-solving, automation, and troubleshooting.

## PROFILE SUMMARY

Aspiring DevOps engineer with experience in building and managing CI/CD pipelines, automating cloud infrastructure, and deploying applications on Kubernetes. Skilled in using tools like Jenkins, Terraform, Docker, and ArgoCD, with experience in AWS services such as EKS, VPC, ALB, S3, and Lambda. Successfully implemented solutions to reduce cloud costs and save on log management. Experienced in automating processes, ensuring applications are scalable, and improving DevOps workflows.

## EXPERIENCE / PROJECTS

### End to End CICD Implementation - Jenkins

Implemented an end to end pipeline for java based applications using Jenkins. I have Implemented various stages such as Build, Unit testing, Static code analysis, SAST, DAST, Creation of Docker images, Deployment on Kubernetes platform using Argo CD.

Tools used:

Jenkins, Maven, SonarQube, Docker, Kubernetes, ArgoCD.

### 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.

### Kubernetes End to End Deployment — EKS

Deployed an application by creating a cluster with Fargate and utilizing replicas in deployment to ensure auto-healing and ease of auto-scaling, configured application load balancer then exposed the application to the outside world through an external IP.

AWS Services involved:

AWS EKS, Fargate, ALB Controller, IAM, Helm, Kubernetes

### Cloud Infrastructure Automation - Terraform & GitHub Actions

Implemented a project to automate the creation of a VPC and its components using Terraform. The workflow involved creating and managing a GitHub repository, developing infrastructure code in a feature branch, and configuring a GitHub Actions pipeline to automatically execute Terraform commands upon every push to the main branch, ensuring efficient and streamlined deployment.

Tools used:

Terraform, GitHub Actions, GitHub, AWS

### Automating Jenkins Log Management - Shell Scripting

Developed a cost-optimization solution by creating a shell script that reduced expenses by up to 50%. The script automated the process of copying Jenkins build logs to an S3 bucket, replacing the costlier ELK stack for log hosting, resulting in significant cost savings.

## PERSONAL DETAILS

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## SKILLS

Cloud - AWS

Containerization - Docker

Orchestration - Kubernetes, EKS

Infrastructure as Code - Terraform

Configuration Management - Ansible

CI/CD - Jenkins, ArgoCD, GitHub

Actions

Build Tools- Maven, AWS CodeBuild

Scripting - Bash

Linux - Ubuntu

Version Control System - Git, GitHub

Programming Language - Python

## EDUCATION

B.Tech - CSE , 8.4 / 10

IIMT College of Engineering,  
Greater Noida(UP)

2019-2023

Class 12th - 78 %

Vidhya Mandir, Sambhal(UP)

2019

Class 10th(2017) - 83 %

Vidhya Mandir, Sambhal(UP)

2017

## ACHIEVEMENTS

Meritorious Student Award  
(2022)

IIMT College of Engineering,  
Greater Noida

Participated in Smart India  
Hackathon(2022)

Organized by AICTE and MIC

CCNA Trained - Hands-on  
experience with networking  
concepts

## LANGUAGES

English & Hindi