Harshit Kaushik

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Phone: +91-6396832259

Location: Noida

An aspiring DevOps Engineer who is looking for opportunities in DevOps and Cloud

## TECHNICAL SKILLS

| Cloud Technologies | AWS |
| --- | --- |
| Build Tools | Maven, AWS CodeBuild |
| Container Technologies | Docker, Kubernetes |
| Scripting | Shell and Python |
| Version Control System | Git, GitHub |
| Configuration Management | Ansible |
| Infrastructure as Code | Terraform, AWS CloudFormation |
| CI/CD | Jenkins, AWS Pipeline |

## PROJECTS SUMMARY

**IMPLEMENTED END-TO-END KUBERNETES PROJECT - AWS**

Implemented AWS EKS on Fargate to deploy and manage a containerized application. Configured Kubernetes resources for application functionality and integrated AWS OIDC with IAM for secure ALB controller operations. Assigned IAM roles to service accounts and installed the ALB Controller using Helm to enable external access through an ALB.

AWS Components involved:

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

**CLOUD INFRASTRUCTURE AUTOMATION - TERRAFORM**

Designed and implemented an automated infrastructure setup on AWS using Terraform. The project involved creating a scalable and secure cloud environment, including defining providers and variables, configuring VPC, subnets, internet gateway, route table, Application Load Balancer (ALB), target groups, and listeners. Ensured a streamlined and repeatable deployment process for cloud resources.

Tools used:

Terraform, AWS VPC, AWS ELB, Subnets, internet Gateway

**CLOUD COST OPTIMIZATION - AWS**

Used the combination of AWS CloudWatch and Lambda Functionto decrease the cloud cost by 25 percent. Created Lambda function in AWS, used the python boto3 module to interact with AWS service APIs and this lambda function is triggered by Cloud Watch events. This lambda function would watch for any unused EBS snapshot and either delete them or send out the notification to the snapshot owner.

AWS Components involved:

AWS Cloud Watch, Lambda, SNS

**AWS RESOURCE MANAGEMENT AUTOMATION - SHELL SCRIPTING**

Developed a shell script to automate the retrieval and display of AWS account resources, including IAM users, EC2 instances, S3 buckets, and other services. Leveraged AWS CLI commands to query and compile detailed resource information in a structured format, enhancing operational efficiency and visibility into cloud resources.

Tools used:

AWS CLI, IAM, EC2, S3, Bash

## EDUCATION

Bachelor of Technology (Computer Science and Engineering)(2019-2023) - 8.4 CGPA

IIMT College of Engineering, Greater Noida(UP)

Class 12th(2019) - 78 %

Vidhya Mandir, Sambhal(UP)

Class 10th(2017) - 83 %

Vidhya Mandir, Sambhal(UP)

**AWARDS**

Meritorious Student Award (2022)

-IIMT College of Engineering, Greater Noida

Participated in Smart India Hackathon(2022)

-Organized by AICTE and MIC

## LANGUAGES

English and Hindi