

# Anish Bista

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

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## PROJECTS

### Multi Cluster Deployment – *ArgoCD*

Created hub-and-spoke multi-cluster deployment system with Argo CD, deploying and synchronizing a guest book application across clusters for consistent management.

#### Implementation:

Implemented a system to deploy applications across multiple clusters using a hub-and-spoke model, with one main hub and multiple smaller spoke clusters. I used Argo CD to manage continuous deployment. Once configured in the hub cluster, Argo CD ensured that applications were deployed consistently across all clusters. This included deploying a guest book application and automatically syncing changes across the clusters whenever updates were made to the Repository having Kubernetes Manifest.

### Implemented Three Tier Architecture — *AWS and Azure*

This is a Robot-shop E-Commerce application which has been built using these technologies:

NodeJS (Express), Java(Spring Boot), Python (Flask), Golang, PHP(Apache), MongoDB, Redis, RabbitMQ, MySQL, Nginx, AngularJS

#### Implementation:

Created the Helmchart to deploy these microservices to EKS cluster and exposed using Application Loadbalancer which is created by ingress controller based on ingress manifest rule.

### End to End CICD Implementation — *Jenkins*

Created End to End CI/CD for Java based application using Jenkins declarative pipelines.

#### Implementation:

As part of the pipeline, 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.

## SKILLS

Kubernetes

Docker

AWS and Azure

Terraform and Ansible

Jenkins, Aws and Azure Pipeline

Golang, Python and Java

Shell scripting

GitOps (ArgoCD)

Prometheus and Grafana

Linux and Networking

Mysql

Troubleshooting

## LANGUAGES

English and Hindi

## EDUCATION

Bachelor's in Computer Science and Engineering, CMR Institute of Technology (2021 – 2025)

Senior Secondary School ,St-Thomas (2019-2021)

## EXTRA ACTIVITIES



## **Automate Jira Creation on a Github Event – *Python***

Automated the process of Jira ticket creation for particular issue on /jira comment.

### **Implementation:**

I have established a GitHub webhook designed to activate a Python application, implemented in Flask and hosted on an EC2 instance, upon the occurrence of a "/jira" comment within the issue section. Subsequently, this application executes an API request to Jira, facilitating the creation of a ticket pertaining to the specified issue.

- Participated in Good First Issue Open source program
- Drummer and Pretty good at sports

## **Cloud Cost Optimization — *AWS,Boto3,Lambdafunction***

Used the combination of AWS cloud watch and Lambda functions To decrease the cloud cost by 25 percent.

### **Implementation:**

Created lambda function in python, used the 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 snapshots and Either delete them or send out notification to the snapshot owner.

## **Automate Provisioning EC2 and EKS Cluster — *Terraform***

Used terraform to create the Ec2 instance and Kubernetes cluster from scratch

### **Implementation:**

Created the VPC , Subnet , Internet Gateway, Route Table, Route table Association, Security Group , key pair and Ec2 instance. As part of the EC2 instance provisioning, the entry-point.sh script is executed within the instance which install docker and run the nginx container.

## **AWS S3 Event Triggering – *Shell Scripting and Python***

Uploaded image to Amazon S3 that triggered the Lambda function from where it triggered the SNS service which sends Email notification.

Created the IAM role for Lambda that grant the permission for S3 bucket and SNS service.

For example:

Netflix: Netflix use S3 event triggering to automatically process video files uploaded to Amazon S3, enabling seamless content ingestion and processing.