


Mukul Kumar

DEVOPS ENGINEER 

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SUMMARY

Versatile DevOps Engineer, enthusiastic about contributing and learning new Technology. Passionate about containers, which contributes to a major portion of my work and having well experience in implementing ,supporting, automating and optimising mission critical deployments by leveraging the use of cloud ,Orchestration Tools ,configuration management, CI/CD, and DevOps processes.

SKILLS

- Kubernetes/Docker
- AWS/GCP
- HELM
- Terraform/Ansible
- Jenkins
- Python, Bash, Shell
- Linux
- Prometheus and Grafana /DataDog
- Git, GitHub
- Nginx

EDUCATION

Dr. A.P.J.Abdul Kalam Technical University
Bachelor's Degree in Technology, Computer Science 2020

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- HashiCorp Certified: Terraform Associate

WORK EXPERIENCE

CloudThat

Feb 2021 - Present

RESEARCH ASSOCIATE - DEVOPS

- Created a Serverless Architecture using AWS lambda functions which when triggered created an IAM user in GCP which can be used for labs and training.
- Created an Azure function that will scale based on HTTPS requests. It did so by using functionalities of Kubernetes Event-Driven Autoscaling (KEDA) it made use of ingress-controller to server the request and HPA to autoscale. The metrics were monitor using Prometheus.
- Deployed a custom RTMP server where We used nginx-rtmp module to deploy a custom RTMP server on EKS. Created a Graviton instance and installed Docker on top of it. Did a docker build on the instance and created an image that will be used for arm-based worker nodes.

Client Projects

SRE at Juspay.

- Implemented the Docker best practices and Implemented the security compliance for Docker containers running with production applications and handle traffic using Nginx webserver. and monitor the application using Grafana.
- Wrote Terraform scripts to provision infrastructure for the client on AWS which included services like EC2, EKS, ELB, VPC, RDS , Redis etc.

DevOps Engineer at Zoomcar

- Provisioned Infrastructure for the client using Terraform for AWS provider which includes services like EC2, EKS, ELB, VPC, RDS, S3, CloudFront, etc and configured it as per the business requirement
- Created Jenkins master & slave architecture where slaves would run on EKS as pods whenever the jobs runs.
- APM setup for JAVA, Ruby, Python, GO-based applications
- Responsible for setting up alerts for various metrics like CPU, memory, IOPS. Created custom alerts that will horizontally scale the EC2 Instances based on HTTPS requests
- Migrate Monolithic application to container-based application and Deployed it on EKS and managed it through HELM chart
- Provision Nginx-Ingress controller to route the traffic running on deployment across different Namespaces.
- Managed RBAC access for different IAM users.