

# Mayank Gwal

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## Professional Summary

Experienced and Certified DevOps Engineer/SRE with 2.8 years of hands-on designing & implementing solutions related to DevOps, Cloud, Microservices, Containers.

## Certifications

- ❖ CNCF - [Certified Kubernetes Administrator](#) [LF-ry0kglq6fo]
- ❖ DevOpsSchool - [Kubernetes Certified Engineer](#) [devopsschool.com-KCE-22-2020-0002]
- ❖ DevOpsSchool - [Docker Certified Engineer](#) [devopsschool.com-DCE-2020-0005]
- ❖ DevOpsSchool - [DevOps Certified Professional](#) [devopsschool.com-DCP-2020-0007]
- ❖ Intellipaat - [Devops Certification](#) [31679-58630-74889]
- ❖ IBM - [Kubernetes Essentials](#) [c38c648f036d48ce90da502199589a4c]
- ❖ IBM - [Docker Essentials](#) [cb6f635563704ed5a7dad4184b158727]

## Work experience



**L&T Technology Services | APR 2018 - Present | Engineer [DevOps]**

- ✓ Used containerized environment for implementing Microservice Architecture
- ✓ Used Devops methodology to increase efficiency, productivity and reduce silos.
- ✓ Achieved High Availability using Kubernetes in AWS and Azure for up-time 99.9%.

**Digital communication solution** - A platform which feeds the services provided by telecommunication provider, visualized in the dashboard and available to the customers in various IOT platforms.

- Developing container based solutions to containerize application using Docker and then deploying them to Microservices based Kubernetes Cluster via CICD Pipelines on AWS via Jenkins
- Developed, Deployed and managed the kubernetes code/manifests for dockerized Microservices, Logging solution Elastic-stack [EFK], into the EKS cluster.
- Deployed service mesh ISTIO and configured in the EKS cluster for intelligent routing, fault tolerance and mTLS security.
- Developed and customized the manifests/code for ISTIO objects & ingress-gateways for exposing the microservices and end to end connection.
- Brought in Auto Scaling Capabilities within the application pods based on custom metrics via Prometheus/Grafana by installing HPA & KEDA.

**Analytic Solution for the air-crafts** - A platform that analyses data in log files collected from Line Replacement Units, which are then aggregated through the course of a flight and are offloaded from an aircraft upon arrival in an airport.

- Used containerized environment to decreased production cost by 35%
- Brought in Auto Scaling Capabilities within the application pods using Prometheus/Grafana via custom metrics & KEDA. Also Cluster Auto Scaler to auto-scale the worker nodes
- Employed different DevOps Strategies like Blue/Green, Canary Release, Continuous Feedback Mechanisms.

- Creating, Configuring Jenkins Pipeline to achieve end-to-end CI & CD (Continuous Integration and Continuous Delivery) of JAVA Based Applications.
- Developed, Deployed and managed the kubernetes code/manifests for dockerized Microservices, Logging solution Elastic-stack [EFK], Nginx Ingress controller as an Api gateway, into the AKS cluster.
- Developed Dockerfiles to containerize JAVA, Angular applications, run those apps on Tomcat, and nginx Servers respectively and store them as images on private docker repository [Azure ACR]
- Monitoring kubernetes cluster using Prometheus and Grafana, and Metrics-Server.

**Software solution for medical equipment** - A solution which maintained the records of medical equipment of various hospitals which mapped to the dashboard to represent the availability of the equipment and its condition.

- Designed, developed & Tested Spring-Boot -based REST micro-services for the system using Git, Java, JSON, Spring Boot, maven, Netflix (Eureka, Zuul, Hystrix), MySQL.

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## **Skills**

**Containerization/Micro-services** Docker, Podman, Kubernetes , Helm, Istio

**Cloud** Azure[ACR, AKS], AWS[EC2, IAM, S3, RDS, DynamoDB, ECR, EKS, VPC, Cloud-Formation, VPC, Lambda, EBS, S3, ELB etc]

**Monitoring** Prometheus, Grafana, Elastic-stack [EFK] and [ELK].

**CI/CD** Jenkins, SCM [Git, GitLab, BitBucket, Github], Nexus

**Infrastructure Automation** Terraform, CloudFormation for IaC, Ansible for Configuration

**Programming/Scripting** Java, Python

**Databases** MySQL, MongoDB

**Operating Systems** - Windows, Linux[Ubuntu, CentOS]

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## **Education**

**PG Diploma in Advanced Computing (DAC) [Aug 2017- FEB 2018]**

CDAC – ACTS PUNE [MHT]

**Bachelor of Engineering : Computer Science Engineering [2013 - 2017]**

CSVТУ, Bhilai [C.G].