

GAGAN PARMAR

Senior MLOps Engineer

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📁 Professional Experience

Senior MLOps Engineer

Sep 2022 – present | Gurugram, India

QuantumBlack AI by Mckinsey 🔗

- Architected a dynamic MLOps ecosystem with JupyterHub, MLFlow, TensorFlow, Argo Workflow, and many other analytics tools, enhancing scalability, reliability, and seamless integration of analytical tools for accelerated project deliveries. This stack has been carefully crafted to provide exceptional scalability, reliability, and seamless plug-and-play capabilities.
- Developed and deployed a comprehensive GenAI chatbot platform using Infrastructure as Code (IaC) on AWS. The platform includes a scalable vector database, a monitoring stack, and on-demand GPU-powered JupyterHub and EMR clusters.
- Engineered and implemented a holistic platform for surrogate modeling and experimentation on Azure, employing infrastructure as code methodologies.
- Designed and implemented an MLOps platform for a prominent pharmaceutical client, taking charge of FastAPI modules and Terraform deployment.

DevOps Engineer

Mar 2021 – Aug 2022 | Pune, India

Navidium India Pvt Ltd 🔗

- Executed CI/CD automation through Azure DevOps, integrating KEDA and RabbitMQ on a Kubernetes cluster to facilitate the onboarding of multiple vessels to our Voyage Optimization and Vessel Performance Monitoring product.
- Developed and maintained automated CI/CD pipelines for code deployment using Bitbucket and Azure DevOps Pipelines.
- Built and deployed Docker container for implementing Microservices Architecture from Monolithic Architecture.
- Helped make the company's development, testing, demo, and production environments more consistent by implementing container technology using Kubernetes

IoT Product Engineer

Feb 2019 – Feb 2021 | Pune, India

Navidium India Pvt Ltd 🔗

- Developed a REST API for seamless transmission of vessel routes using Flask and MongoDB.
- Handled scripting and deployment of solutions on the Arm64-based hardware.
- Built and deployed a solution on an edge device for seamless transmission of vessel routes (XML, RTZ, CVS, and text) consumed by the other applications with the help of the REST API and MQTT.
- Developed a data acquisition system for GPS (NMEA-1083) and AIS (Automatic Identification System) data received from GPS and AIS systems, respectively.
- Built a proof of concept for vibration analysis of electrical equipment's on the vessel using a Raspberry Pi.

Skills

Programming & Scripting languages

Python, C, Embedded C, Shell scripting

Data science & Analytics Tools

JupyterHub, ArgoWorkflow, MLflow, Airflow, Ray

CI/CD Tools

GitHub Actions, Bitbucket, Azure DevOps, CircleCI, Jenkins

Cloud Platform

AWS, Azure

DevOps Tools

Docker, Kubernetes, Helm, ArgoCD, Terraform

Operating Systems

Linux- Ubuntu Raspbian, Windows, macOS

Version Control Tools

Github, Bitbucket, Azure repos

Database

Milvus(vector DB), PostgreSQL, MongoDB, InfluxDB

Observability Tool

Prometheus, Grafana, Loki

Build Tools

Make, npm/yarn

Education

PG Diploma in IoT

CDAC ACTS

Jul 2018 – Feb 2019 | Pune, India

Master of Technology in Embedded Systems

Devi Ahilya University

Jul 2015 – Jun 2017 | Indore, India

Bachelor of Engineering

Shri Vaishnav Institute of technology and Science

Jul 2010 – Jun 2014 | Indore, India

Projects

Drone based real time vessel inspection system

Jan 2019 – Feb 2019

The project's primary goal is to use image processing to find rust and cracks on the bodies of large container ships.

An IoT based Low Cost Pollution Monitoring System

Jul 2016 – Jun 2017

The basic idea behind the project is to observe the content of pollutant gases in the environment using a general-purpose sensor.

Publications

An IoT based low cost air pollution monitoring system

IEEE

Oct 2017

Certificates

Vibration Analyst Level - 1 (R&D Mechanical)

Languages

• English

• Hindi

Interests

• Singing

• Playing Computer Games