

Shubham Acharya

Senior DevOps Engineer

Skilled DevOps Engineer with 5 years of experience in designing and implementing automated processes for software development and deployment. My expertise includes hands-on experience with Infrastructure orchestration, containerization (Docker/Kubernetes) and cloud technologies such as AWS and OCI.

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WORK EXPERIENCE

Senior DevOps Engineer Oracle India Private Limited

07/2023 - Present

Achievements/Tasks

- Managed containerized automation test suite using Docker and Kubernetes to improve scalability and portability of testing.
- Created and maintained infrastructure as code (IaC) using Terraform.
- Designed and Implemented Automated log collection framework to collect various logs from cloud-deployed systems.
- Developed a fleetwide execution engine to run scripts across the cloud database fleets and capture, consolidate results and visualize into a dashboard.
- Created an AI enabled Slack Bot (based on LLM) to help Ops team to launch workflows, run automation testing, log collection from Exadata nodes etc. on simple human language interactions.
- Designed and created Blue Green deployment strategy for Team's Exadata ECRA servers to enable zero downtime patching/deployment.

DevOps Engineer Oracle India Private Limited

11/2020 - 06/2023

Bangalore, India

Achievements/Tasks

- Implemented and Managed Canary/Automation testing for new versions of software before deployment to production.
- Developed and maintained automated build pipelines with Jenkins.
- Maintained Git workflows for version control (SCM) for team owned projects.
- Contributed to Python-based cloud automation tool Blueprints.
- Infrastructure orchestration for Multi-region cloud deployments with Shepherd (Deployment Service).
- Experienced in Software Development Lifecycle phases with Agile Methodologies.

EDUCATION

Masters of Technology NIT Bhopal (2018 - 2020)

CGPA: 8.4/10.00

Bachelors of Technology Government Engineering College, Raipur (2014 - 2018)

CGPA: 7.9/10.00

SKILLS

Python

Bash

Linux

Kubernetes

Computer Networking

Prometheus

Ansible

CI/CD

Jenkins

Terraform

OCI/AWS

RESTful API

Git

Nginx

Docker

ACHIEVEMENTS

Successfully automated the build and deployment process for team projects, reducing deployment time by 75%.

Developed a highly scalable containerization strategy for automation testing service that reduced testing overheads.

Improved application log collection mechanism by implementing automated log collections and integrated it with bug/jira systems.

PROJECTS

Zero-Downtime Deployments with Blue-Green Strategy (02/2025 - Present)

- implemented a Blue-Green deployment approach for Exadata ECRA servers to achieve zero-downtime updates and seamless failover between environments.
- Tech stack:** Bash, Python, Terraform, Shepherd, OCI.

AI-powered Slack Bot for DevOps Automation (12/2024 - Present)

- Designed and implemented a Slack bot powered by Large Language Models (LLM) that enables the operations team to perform tasks such as launching workflows, automation testing, and collecting logs from Exadata nodes via natural language.
- Tech stack:** Python, OCI GenAI, Slack API, API Gateway, OCI, Exadata, Docker.

Automated Log Collections (08/2022 - Present)


- Created a distributed solution for collection of various logs from cloud based database components. Also Enhanced it to scan and upload logs from Bug tickets comment requests.
- Tech stack:** Linux, Bash, Python, Terraform, Jenkins, Grafana, OCI.

Fleetwide Executor (07/2024 - Present)

- Created a framework for executing scripts across the fleet (multiple regions and clusters/nodes). While capturing the result and consolidating into csv format and visualizing it to a dashboard.
- Tech stack:** Linux, Bash, Docker, Python, Terraform, Build service, OCI.

CERTIFICATES

Certified Kubernetes Administrator (CKA) (06/2023 - Present) 

Certified Architect Associate 2021 - Oracle Cloud Infrastructure
(10/2021 - Present) 

Certification in Terraform (08/2021 - Present) 