

# HARSH UPADHYAY

Mumbai, Maharashtra, India 400022

📞 9967113664 ✉ amanupadhyay2004@gmail.com 👤 Portfolio 🌐 LinkedIn 🐙 Github

## Summary

---

Passionate Student with experience in automating workflows, and improving application performance and stability. Currently learning DevOps best practices, CI/CD, system monitoring, and incident management. Seeking to leverage my skills and experience to contribute to the reliability, availability, and scalability of applications and infrastructure

## Education

---

### Mumbai University

Bachelor of Engineering in Computer Science Engineering

2022 – 2026

Mumbai, Maharashtra

## Experience

---

### TCET-Opensource

Production Engineer (Team Lead)

July 2023 – Present

Mumbai, Maharashtra

- Cooperated with the development team to a service to **automatically** perform a set of unit tests daily on a product in development in order to decrease time needed for team members to **identify and fix bugs/issues**.
- Transformed** software delivery lifecycle with implemented continuous integration and deployment, resulting in a **~25% reduction** in delivery time and **decrease** in production defects.
- Impacted to a notable improvement in application performance, achieving an **increase in response time** and optimizing infrastructure scalability.

## Projects

---

### Spring-Boot Microservice API | Java (Spring Boot), PostgreSQL, JWT Auth

Present

- Developed a **microservice** architecture using Spring Boot, enabling seamless communication between multiple services while **ensuring scalability and maintainability** of the application.
- Implemented **JWT authentication** mechanism to secure the API endpoints, providing secure access control and user authentication for the microservice API.

### TCET-Linux | Arch Linux, Shell, Github Actions

Present

- Successfully **designed** and **implemented** a release workflow for TCET Linux using GitHub Actions for ISO building, enhancing project efficiency.
- Demonstrated **proficiency** in key technologies and tools, including GitHub, GitHub Actions, Arch Linux, and shell scripting, showcasing strong technical skills relevant to the project.
- Showcased a commitment to personal growth and skill development, learning and applying new techniques and technologies while contributing to the open-source community.

### ERP-Manifest | YAML, NodeJs, MongoDB, Kubernetes

November

- Curated detailed manifest files (Kubernetes YAML) for deploying the **backend services** and **MongoDB database** in a Kubernetes (Minikube) cluster.
- Configured a **StatefulSet** for MongoDB, deploying a scalable ReplicaSet to enhance data reliability and distribution across nodes.
- Successfully orchestrated the entire application stack using **Kubernetes**, enhancing scalability and maintainability.

## Technical Skills

---

**Languages:** Java, JavaScript, Python, Golang, YAML

**Database:** MongoDB

**Developer Tools:** Jenkins, CircleCI, Github Action, AWS (EC2), Kind

**Technologies/Frameworks:** NodeJs, React, Linux, GitHub, Docker, GitOps, Kubernetes

## Leadership and Involvement

---

### Google Cloud Study Jam Facilitator

Sept 2023 – Present

Google Cloud Skills Boost

GDSC-TCET

- Orchestrated** the successful management of 150 students in Google Cloud Study Jam, **optimizing program delivery**; ensuring **high engagement** and **completion rates**.
- Provided personalized mentorship, **resolving technical hurdles**, and enhancing **student satisfaction** through practical guidance and **one-on-one support**.