

# HARSH UPADHYAY

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## Summary

Passionate Student with experience in automating workflows, and improving application performance and stability. Currently learning Backend Development and DevOps best practices, CI/CD and system monitoring. 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

### Production Engineer (Team Lead)

July 2023 – Present

TCET-Opensource

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

### DevControl | Go, Docker Engine API, Cobra CLI, Bubbletea

Mar 2024 – May 2024

- Developed a **Go-based** CLI tool integrating **Docker Engine API** and **Bubbletea**, enabling seamless creation and management of 10+ isolated containers with desired tech stacks, significantly reducing environment setup time.
- Implemented robust functionality for **creating, starting, stopping, listing, removing** containers and **Docker images**, supporting volume mounting and repository cloning for seamless local code integration.
- Leveraged **Cobra CLI** framework to build a user-friendly command-line interface, enabling developers to manage containers efficiently from the terminal.

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

Jun 2023 – Feb 2024

- Engineered** an efficient GitHub Actions release workflow for TCET Linux, bolstering ISO building. Showcased expertise in GitHub, Arch Linux, and shell scripting, **underscoring** pivotal technical skills for the project.
- Individually **designed and implemented** a customized application installer for TCET Linux, achieving a 20% reduction in installation time and receiving **positive feedback** within the initial release period.
- Showcased a **commitment** to personal growth and skill development, learning and applying new techniques and technologies while **contributing** to the open-source community.

### Ducker | NestJs, Docker Engine API, ReactJs, ChartJs

Feb 2024 – Feb 2024

- Developed** a comprehensive system that leverages NestJs, Docker Engine API, ReactJs, and Chart.js to monitor Docker containers, providing **real-time statistics** and **logs** through an intuitive interface.
- Involved intricate problem-solving for real-time data acquisition and visualization, necessitating **effective collaboration** within a team of developers.
- Significantly **enhanced** my proficiency in **Docker integration**, data visualization, and full-stack development, while fostering my collaborative skills.

## Technical Skills

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

**Database:** MongoDB, PostgreSQL

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

**Technologies/Frameworks:** NodeJs, NestJs, React, Linux, GitHub, Docker, 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**.