

HARSH UPADHYAY

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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

TCET-Linux | Arch Linux, Shell, Github Actions

Jun 2023 – Present

- 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.

SahayataAwas Backend | NestJs, PostgreSQL, JWT Auth, RBAC, DB Transactions

Oct 2023 – Jan 2024

- Engineered a robust API using NestJS with **advanced features** like JWT authentication, role-based access control, and one-to-many relationships for **secure and organized data management**.
- Integrated Postgres and utilized TypeORM, implementing **database transactions** to ensure data integrity and efficiency.
- Demonstrated proficiency in a modern tech stack, showcasing expertise in NestJS, Postgres, and TypeORM, while **prioritizing** scalability and reliability.

ERP-Manifest | YAML, NodeJs, MongoDB, Kubernetes

Oct 2023 – Nov 2023

- 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, 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**.