

# Megha Tamrakar

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## PROFESSIONAL SUMMARY

Cloud-focused Software Engineer with **research background and 3+ years** of experience building scalable backend systems, multi-cloud automation and CI/CD pipelines. **Published Researcher** with **M. Tech** from **NIT Raipur**, proven track record of developing innovative solutions using **Python, REST APIs, and CI/CD for AWS, GCP and Azure CSPs** with a strong focus on performance optimization, infrastructure automation, and deployment reliability. Contributed to robust cloud-native features for **vantage Cloud Lake (VCL)** – Teradata’s cloud-native, **Enterprise grade analytics platform** across **large-scale** distributed systems.

## TECHNICAL SKILLS

**Programming languages:** Python, C, C++.

**Backend & Systems:** REST APIs, Linux, Docker, Kubernetes, Git.

**Cloud:** AWS (Lambda, EC2, S3, DynamoDB, Step function), Google Cloud and Azure.

**Databases:** Teradata, Oracle, SQL, RDBMS.

**DevOps:** Jenkins, Gitlab CI/CD, GitHub Actions.

**Others:** Parallelism, System Design, Pytest, Scrum, AI/ML Basics.

## PROFESSIONAL EXPERIENCE

### Teradata, Hyderabad, India

*Software Engineer*

Aug 2023 – Nov 2025

- Designed a one-click **cleanup solution** for **VCL multi-cloud environments** (AWS, Azure & GCP), automating instance, metadata and resource cleanup via a single REST API, cutting cleanup time from **15 hrs. to 15 mins** and achieving **60x performance boost**, using Python and cloud SDKs.
- Implemented **BOM rollback mechanism** that shows the correct version after upgrade failure, improving deployment reliability **across AWS, Azure & GC CSPs using REST API**.
- Contributed to a multi-team project **for integrating Network Load Balancer support** for AWS, enhancing scalability, reliability with backward compatibility and seamless upgrades.
- Contributed to integrating a new component with the **Cloud Infrastructure Provisioning Agent**, improvising provisioning workflow.
- Led an **end-to-end repo migration** using an automated **SCM migration tool**, while updating pipelines, webhooks, and integration to support **CI/CD and cloud workflow** deployments.
- Built an automated standalone Jenkins pipeline for **rapid AMI sharing**, reducing a **3-hour process to 3-5 minutes** across AWS & GCP.
- Implemented automated sanity testing in **Jenkins** based container image build pipelines, covering GPU and standard configuration for **multi-cloud platforms**.
- Resolved **security vulnerabilities** in container images and implemented a unified security tagging strategy across AWS, Azure and GCP, including adding automated security tags to the container **CI/CD production pipeline** to improve traceability and compliance.

### Oracle India Private Limited, Hyderabad, India

*Associate Consultant*

Jun 2022 – Aug 2023

- Worked on the **International Government Project in the Oracle Health Insurance (OHI)** domain primarily on the technical aspect.
- Assisted in managing application servers, **DB servers**, and file handling operations on **Linux**.
- Worked on **REST API** to perform alternate UI operations and validate integrations of OHI applications.
- Contributed to **configuration**, customization, and operational activities of **OHI applications** to meet project requirements.

### Unacademy, Remote

*Educator*

Mar 2018 – Jun 2019

- Star Educator (2018) | 80K+ views milestone | Top 10 Educator (CBSE Category - 2018)

## EDUCATION

### National Institute of Technology, Raipur, India

*MTECH – Honours, Information Technology, 8.40 CPI*

Sep 2020 – Aug 2022

**Thesis:** Twitter Sentiment Analysis of COVID-19 vaccines using ML& DL Techniques (Python, NLTK, BERT and CNN)

**Publications:** Research papers on 1. Security issues in Fog Computing, (IEEE, ICIACS-2021)

2. Twitter Sentiment Analysis of Covaxin for Children in India Sentiment Analysis of Covaxin (IEEE, CISES-2022)

**Key Academic Projects:** 1. Sentiment Analysis using ML (NLTK, SVM, GNB), 2. Emotion detection using EEG (ML, Apache spark)

### Shri Shankaracharya Group of Institutions, Bhilai, India

*Bachelor of Engineering, Information Technology, 8.14 CPI*

Jun 2014 – Jun 2018

**SOFT SKILLS:** Collaboration | Problem solving | Communication