

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, ICICCS-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