Mohammed Tanveer

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Summary

Highly accomplished DevOps and Data Engineer with over 11 years of experience architecting, implementing, and managing robust, scalable, and automated software solutions and data platforms. Proven expertise in cloud infrastructure (AWS), CI/CD pipelines, Infrastructure as Code (IaC), containerization (Docker, Kubernetes), and data engineering technologies (Snowflake, Airflow, dbt, Kafka). Adept at streamlining development lifecycles, optimizing system performance, and driving operational efficiency through automation. Successfully led cross-functional teams in delivering complex projects with a strong focus on continuous integration, continuous delivery, and data integrity. Possesses AWS Certified DevOps Engineer – Professional and TOGAF certifications.

Skills

Programming languages: Python 2.7/3.x, dbt, Golang, JavaScript, Svelte, SQL, HCL
Amazon web services: S3, Lambda, EC2, CodePipeline, CodeBuild, CodeDeploy, Fargate, ECS, Aurora (Amazon RDS), CloudFormation, CloudWatch, EFS, IAM, StepFunction, Glue, Kinesis, Athena
Database: Oracle, SQL server, PostgreSQL, Amazon RDS(Aurora), SQLite, Redshift
Version control: Git, Azure, Tortoise
IDE: PyCharm, Intellij, GoLand, VS Code, Cloud9, DataGrip, Rider, Visual studio, Qt Creator
Tools: Docker, JFrog, Apigee, Terraform, Splunk, JIRA, Azure DevOps, Matillion
Data Engineering tools: Snowflake, Kafka, Fivetran, DBT, Salesforce, snowpipe, snowpipe streaming, Amazon data firehose

Work Experience

Autodesk

(April 2025 – Present)   *Principal Engineer*

- Streaming data pipelines for API using **Amazon data firehose** and **snowpipe streaming** with Airflow orchestration with reduced **latency of <20ms.**
- Developed **Flink snowflake connector sink** for **Kafka** based real time streaming for higher throughput of **200,000 transactions/**second and eliminating for additional managed spark jobs.
- Integrate **Liquibase to Jenkins pipeline** in all environments for quicker and seamless deployment of sql and snowflake objects like stored procedures, tasks and streamlit apps **automating in all environments.**
- Develop **snowflake streamlit** apps with access control to stakeholders for interactively updating domain data in a span of days **eliminating weeks of effort** to develop and deploy javascript based apps
- Optimize **Transform to Publish framework** execution **time by ~30%** to enable faster batch process.
- Collaborate, engage with data domain teams towards framework adoption and delivery of data objects in a quarter

(July 2021 – March 2025)   *Senior Software Engineer*

- Established Enterprise Data Hub (EDH) in Snowflake, consolidating disparate data sources.
- Ingested data via Fivetran (CDC) and transformed using DBT.
- Designed, built, and deployed cost-effective, automated infrastructure for batch and streaming data processing.
- Developed a dbt framework ("Transform to Publish") for incremental updates, deletes, error capture, and data quality testing.
- Created AWS Step Function orchestration for data quality tests, **reducing runtime by ~80%.**

- Cut deployment **time >60%** and boosted **availability to 99%** through automation.
- Advanced DevOps practices by building containerized (IaC) software environments.
- Set up EKS clusters with AWS LB Controller for **high-volume requests** and data workloads.
- Developed automated CI pipelines using Docker, AWS CodePipeline, Bash, and Makefiles.
- Built a Golang CLI tool to pause test environment container services, **saving 10% in costs**.
- Implemented **zero-downtime** ECS Fargate deployments using blue-green strategy.
- Architected event-driven solutions leveraging AWS EventBridge for seamless data flow.
- Expertise in **Caddy** server configuration as a reverse proxy for OAuth2.0 authentication.

IHS Markit (September 2019 – July 2021)   *Senior Associate Software Engineer*

- Migrated a legacy application to **AWS cloud native reducing 30 hours of manual effort per day.**
- Developed and maintained **Terraform** templates for infrastructure as code for faster deployments.
- Initiated to set up of proxies in **Apigee** for enhanced security of APIs for **secured single sign-on**
- **Containerization** with proper security controls in place to secure file sync mechanism.
- **AWS Fargate** containers to orchestrate the data churn for Wells data in csv files and update the domain specific warehouses for data to be consumed.

Continental Automotive (May 2015 – Aug 2019)   *Senior Software Engineer*

- Integrate **object detection and tracking** algorithms (**Python**) and the tool (**C++**) to visualize labels
- Protobuf integration for cross application communication **reduced time from milli to microseconds**
- Contributed to pre-labelling framework to auto generate label **reducing manual effort by 70%**
- Developed and maintained the **Test Data Server Manager –** a desktop application built using PyQt framework for managing server data and recording.

Mphasis (Jan 2014 – Apr 2015)   *Associate Software Engineer*

- Maintain and develop new features for the CUNA application using the GOLD programming language.

Certifications

[TOGAF 10 Certified Enterprise Architect](#) (**799256242**)

[AWS Certified DevOps Engineer – Professional](#) (**P9MDJ9GK9M44QNKJ**)

[Astronomer Certification DAG Authoring for Apache Airflow](#)

[Astronomer Certification for Apache Airflow Fundamentals](#)

[AWS Certified Developer-Associate](#) (**K2VERM12Z1B11RCG**)

Education Qualification

B.E. in Telecommunication from CMR Institute of Technology, Bengaluru; affiliated to Visveshwaraiah Technological University, Belgaum in 2013