

# Mohammed Tanveer

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## Summary

A DevOps and Data Engineer with over 10 years of experience in designing, building, and managing software solutions. Skilled in leveraging best practices and tools to ensure high-quality software delivery and system performance. Experienced in developing and managing processes to automate the daily operations of DevOps. Proficient in Amazon Web Services, Docker, Python, Kubernetes and Golang for scripting. Successfully led the design, deployment, and maintenance of multiple projects with a strong emphasis on continuous integration and continuous delivery. Proven ability to work collaboratively with cross-functional teams to ensure the successful completion of projects.

## Certifications

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[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 \(K2VERM12Z1B11RCG\)](#)

## Skills

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**Programming languages:** Python 2.7/3.x, 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, GoLand, VS Code, Cloud9, DataGrip, Rider, Visual studio, Qt Creator

**Tools:** Docker, JFrog, Apigee, Terraform, Splunk, , JIRA, Azure DevOps, Matillion

**Data Engineering tools:** Snowflake, Fivetran, DBT, Salesforce, snowpipe, snowpipe streaming, Amazon data firehose

## Work Experience

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**Autodesk** (July 2021 – present)

*Senior Software Engineer*

### **Enterprise Data Hub**

- Developed orchestration using **AWS Step Function** to run data quality tests reducing time by **almost 80%**.
- Setup Enterprise Data Hub (EDH) consolidating all data sources into **Snowflake** warehouse.
- Leverage **Fivetran** CDC tool to ingest data and **DBT** to transform data.
- Design, develop and deploy a cost-effective infrastructure solution with core automation for batch and streaming data.
- Developed **Transform to Publish framework** using **DBT** performing incremental update, delete capture, data quality tests, missing events, custom macros to capture failed records and data quality tests.
- **Transform to Publish framework** is used by six domain teams for seamless data flow to downstream layer
- Streaming data pipelines for API using **Amazon data firehose** and **snowpipe streaming** with Airflow orchestration.

- Reduced **deployment time** by more than **60%** and **increased availability** by up to **99%**
- Use AWS services to setup alerts and monitoring system to track ingestion failure.
- Empowered teams in **DevOps tools** and processes by building software in a containerized environment (IaaS)
- Setup **EKS** cluster with AWS controller for load balancer to cater high volume requests and run data workloads.

#### **Enterprise Integration Hub**

- Developed CI pipeline using **Docker**, **CodePipeline**, bash scripts and make files for automated deployments.
- Built a **Golang command line tool** for pausing container services in test environment **saving 10% of cost**.
- Implemented **ECS blue green deployment to have zero downtime** for applications hosted on ECS Fargate
- Architect event driven solution for seam less dataflow using **EventBridge**.
- Strong knowledge on **Caddy server** used as reverse proxy for **OAuth2.0 authentication**.
- Knowledge of **Svelte.js** framework for **frontend development** of our monitoring portal
- Collaborate with stakeholders and teams to manage expectations in a responsive manner.
- Proficient with **Git** and Git Workflows and **CloudFormation** for resource and state management.

**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*

#### **Education Qualification**

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