

Mikhail Tavarez

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WORK EXPERIENCE

Accenture

Apr. 2019 – Present

Senior Data Engineering Analyst

Austin, TX

- Fortune 500 Health Services Organization: Build enterprise-critical AWS-driven data warehousing solution to consolidate and deliver high quality data to downstream teams, data scientists, and business stakeholders.
 - AGILE Development, deployment, and implementation of cloud architecture in AWS for a public application.
 - Development and enhancement of Python/PySpark scripts for data transformation, ingestion, and integration across multiple platforms and environments (Teradata, Hadoop, AWS).
 - Performed historical data ingestion and SCD1/SCD2 change data capture (CDC) from Teradata into Hadoop, then Redshift and Aurora. Involved unit testing, end to end multi-platform integration testing, and UAT.
 - Management and improvement of CI/CD pipeline and git repository enabling delivery for 9-10 teams. Involves development and configuration using Terraform, Please Build, Git, and Jenkins.
 - Support application build releases into production by reviewing code, managing release timelines, handling application code promotion, and remediating production issues.

Knowledgegent, Part of Accenture

Jan. 2018 – Apr. 2019

Data Engineer/Data Warehousing Analyst

Warren, NJ

- Multinational Management Consulting Firm: Implementation of S3 Data Lake, Development of data integration pipelines to extract and transform data from operational databases to load them into Snowflake data warehouse.
 - Author Python scripts to extract data from MS SQL Server instances. Fetch flat files via SFTP & load them in S3.
 - Modeled Star and Snowflake schema dimension and fact tables from raw operational tables in RDS MS SQL Server/Amazon Aurora.
 - Performed historical data ingestion and SCD1/SCD2 change data capture (CDC) from RDS to Snowflake.
 - Built semantic layer reporting views to support Tableau dashboard visualization.

PROJECTS

Automating ETL using AWS

Nov. 2018 – Apr. 2019

- Developed highly available and scalable AWS framework to automate the ETL process. Driven by microservices coded in Python and deployed using SAM and CloudFormation.
 - Python microservices deployed as Lambda functions, orchestrated via audit tables in PostGRES database and AWS StepFunctions.
 - Publishes job metadata to ELK stack via Kinesis stream and Lambda function consumer.
 - Author CloudFormation templates to provision AWS compute, storage, and IAM roles.

CERTIFICATIONS & SKILLS

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| ▪ AWS: S3, SQS, SNS, Kinesis, RDS, Lambda, CloudWatch, CloudFormation, IAM, Redshift, Glue, StepFunctions | ▪ AWS Certified Solutions Architect - Professional |
| ▪ Python, SQL, UNIX, PySpark, HCL, Hive | ▪ AWS Certified SysOps Administrator - Associate |
| ▪ Git, Jenkins, Terraform, Please Build, AGILE | ▪ AWS Certified Solutions Architect - Associate |
| ▪ MySQL, MS SQL Server, Snowflake, PostGRES | ▪ AWS Certified Developer - Associate |

EDUCATION

Rutgers University, School of Engineering

BS, Chemical Engineering

May, 2016

New Brunswick, NJ