

Meenakshi Rajesh

mrajesh4@asu.edu | +1 (623)-212-8443 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | 2+ years of experienced Data Engineer

EDUCATION

Arizona State University | M.S. in Computer Engineering

Tempe, Arizona | Expected Graduation, May 2025

Related Coursework: Data Processing at Scale, Data Mining, Data Visualization, Data Structures and Algorithms

GPA: 3.8/4

College of Engineering, Trivandrum | B. Tech in Electronics and Instrumentation Engineering

Trivandrum, India | Jul 2021

Related Coursework: Python programming, Operating Systems, Data Structures and Algorithms

GPA: 9.06/10

EXPERIENCE

Rocket Companies (Amrock)

Detroit, Michigan

Data Engineer Intern

May 2024 – Aug 2024

- Orchestrated the seamless migration of **700+ million** records using **AWS DMS** from **AWS RDS** to **AWS S3** bucket, enhancing data accessibility and storage efficiency
- Processed and transformed data into **over 100 Parquet files** in **S3** using architected **AWS Lambda** and **AWS Glue** solutions, optimizing storage and query performance
- Streamlined the creation of S3 buckets, Glue catalog tables, and Glue pipelines with **Terraform**, enhancing deployment efficiency by **30%** and minimizing manual errors
- Optimized **800+ million records** with **SSIS** for data extraction and transformation, bolstering business intelligence capabilities
- Enhanced team productivity by **20%** and sprint planning accuracy by **25 %** through the implementation of **agile** methodologies using **Azure DevOps**

Cognizant

Kochi, India

Data Engineer II

Sep 2021 – Jul 2023

- Engineered data pipelines in **Azure Data Factory** for extracting **900+ million** records using APIs, optimizing data loading time by 40%
- Orchestrated the ingestion and transformation of data from **Azure SQL Database** and **Azure Blob storage** into **Azure Data Lake Gen2** using Azure Data Factory, slashing **ETL** time from 2 hours to 45 minutes
- Directed high-performance dataflows to implement **Slowly Changing Dimension (SCD)**, efficiently populating **800 million** records into dimensional tables within an **Azure Synapse** environment, leveraging a **Snowflake schema** for data modeling
- Developed and upheld dashboards for monitoring ETL pipelines, integrating data quality checks, resulting in a 50% decrease in SLA for issue resolution
- Automated log backups for client AstraZeneca using Python coding on **AWS Lambda**, obviating 100% manual efforts
- Implemented and maintained **AWS Step Functions** workflow, efficiently managing the ingestion and upkeep of over 10 million new pharmaceutical data records for vendors associated with AstraZeneca

SKILLS

Languages: Python, C/C++, SQL

Databases: MSSQL, MySQL, PostgreSQL

Operating Systems: Linux, Windows

Big Data: Hadoop, Apache Spark, SSIS, DBT, Apache Kafka, Apache Airflow

CI/CD: Docker, Kubernetes, Terraform

Developer Tools: Git, Power BI, Slack, Teams

Frameworks: Pandas, NumPy, TensorFlow

Cloud Platforms: AWS (Glue, S3, Lambda, DMS, RDS), Azure (Data Factory, Synapse Analytics, Data Lake Storage)

PROJECTS

Real Time Stock Market Data Pipeline | Apache Kafka, Python, AWS S3, AWS Glue, Amazon Athena

Dec 2023 – Apr 2024

- Extracted **over 10 records per hour** from the Yahoo Finance API by implementing data pipelines using **Kafka** on **AWS EC2** for streaming real-time data to an **S3** bucket
- Engineered an **AWS Glue** pipeline, leveraging Glue Crawler to efficiently catalog data stored in **S3**, enabling advanced querying capabilities with **Amazon Athena**

Data processing for AP Morgan Data Platform | Spark, Data Factory, Databricks, Data Lake Storage

Aug 2023 – Sep 2023

- Enabled thorough analysis of the validity of **over 1000 files** by implementing transformation logic in **Spark** and executing event-based triggers for **Azure Data Factory** pipelines
- Achieved a **30%** reduction in processing time by designing and deploying ETL pipelines on **Azure Databricks**, streamlining data transfer with automatic triggers upon **CSV** ingestion into **Data Lake Storage**

AWARDS AND CERTIFICATIONS

[Microsoft Certified Data Engineer \(DP-203\)](#)

[New American University Scholarship](#)