

Meenakshi Rajesh

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EDUCATION

Arizona State University

Tempe, Arizona

M.S. in Computer Engineering

Expected Graduation, May 2025

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

SKILLS

Programming Languages: Python, SQL, C/C++, Scala

Databases: PostgreSQL, MySQL, MS SQL

Big Data Tools: Hadoop, Apache Spark, Apache Kafka

CI/CD Tools: Docker, Apache Airflow

Cloud Platforms: Azure, AWS

Reporting: Power BI

Operating Systems: Windows, Linux

EXPERIENCE

Amrock, LLC

Detroit, Michigan

Data Engineer Intern

May 2024 – Aug 2024

- Led innovative data solutions, directed **SSRS** SQL report generation, optimized coding workflows, drove collaborative data strategy, and crafted impactful user performance analytics
- Enhanced data pipeline on **AWS Glue**, achieving a **30%** reduction in ETL time, ingesting and optimizing data for **AWS RDS, AWS S3** and **AWS Redshift**

Cognizant Technological Solution

Kochi, India

Data Engineer

Sep 2021 – Jun 2023

- Spearheaded the design of data pipelines in **Azure Data Factory** processing **900+** million records for data aggregation and visualization using **Power BI**
- Optimized data loading into dedicated **SQL** pool tables, reducing data loading time by **40%**
- Ingested and transformed data from **Azure SQL Database** and Azure Blob storage into **Azure Data Lake Gen2** using **Azure Data Factory**, eliminating redundant data and cutting **ETL** time from **2 hours to 45 minutes**
- Utilized dataflows for implementing **SCD** logic for pushing **0.8** million records into dimensional tables on **Azure Synapse**
- Developed and sustained dashboards monitoring for ETL pipelines, incorporating data quality checks, decreasing a **50%** decrease in SLA for issue resolution
- Automated log backups for client AstraZeneca using **python** coding on AWS Lambda, reducing **100%** manual efforts

PROJECTS

Stock Market decision making using Reinforcement Learning and Kafka

Dec 2023 – Apr 2024

- Implemented **DQN** to enhance decision-making by **10%** through the utilization of live stock data from various volatile markets and news analytics, validated by profit margin analysis
- Leveraged **Kafka** for real-time data management, integrated **GPT-4** as the reward function, and incorporated live human feedback for updating, leading to a **150%** profit surge over baselines

Data processing for AP Morgan Data Platform using Apache Spark

Oct 2023 – Nov 2023

- Designed and deployed ETL pipelines on **Azure Databricks**, streamlining data transfer and transformations, resulting in a **30%** reduction in processing time while ensuring automatic triggering upon CSV file ingestion into Data Lake Storage
- Implemented transformation logic in **Spark** and executed event-based triggers for Azure Data Factory pipelines, enabling thorough analysis of the validity of over 1000 files

Data Pipeline for Twitter Data with Airflow

Aug 2023 – Sep 2023

- Extracted **200+** records of Twitter data using **Tweepy API** and deployed them to **AWS S3** through **AWS EC2** instance
- Orchestrated an ETL pipeline with **Apache Airflow**, crafting a Directed Acyclic Graph for seamless data processing

ACTIVITIES AND LEADERSHIP

Arizona State University

Tempe, Arizona

Graduate Student Assistant for EEE 334 and 335 (Analog and Digital Circuits)

Aug 2023 – Present

CERTIFICATION AND ACHIEVEMENTS

Certifications: Microsoft Certified Data Engineer (DP-203), Hacker rank SQL and Python Specialization

Achievements: New American University (NamU) Scholarship, Sun Devil State Award