

Aasma Aas Muhammad

Data Engineer | ETL & Data Pipelines | Data Analytics | Machine Learning | Python/SQL Expert | AWS Cloud Solutions Specialist

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📍 Lahore, Pakistan

🌐 LinkedIn

🔗 Aasma_Portfolio

🐙 GitHub

Professional Experience

2023/12 – present
Lahore, Pakistan

Data Engineer

DotLabs (Full Time) [🔗](#)

Job Description

- Designed and implemented scalable ETL processes on AWS, utilizing EC2 and AWS Lambda for large-scale data transformations, enhancing overall data accessibility.
- Built and optimized ETL pipelines using DBT, Airbyte, Azure, and AWS to enable seamless and accurate data movement and transformation across various platforms.
- Created automated scripts with Python and AWS Glue to streamline data validation processes, significantly enhancing data reliability and consistency.
- Developed and managed comprehensive daily, weekly, and monthly data pipelines, ensuring consistent data availability and accessibility for stakeholders.
- Configured and monitored Airflow jobs to automate ETL tasks, ensuring data freshness and timely availability for analytics and reporting.
- Implemented CI/CD pipelines for continuous integration and deployment, supporting effective data governance and maintaining high data quality standards.
- Integrated and automated data workflows for HubSpot and GA4 APIs, facilitating smooth ingestion and analysis of marketing and customer behavior metrics.
- Created interactive dashboards in QuickSight and Power BI for real-time data visualization, delivering actionable insights to stakeholders.

2021/06 – 2023/06
Lahore, Pakistan

Front-End Developer

Arhamsoft Pvt Ltd [🔗](#)

Job Description

- Lead projects and mentor junior team members and worked closely with designers to ensure the correct implementation of UI components, layouts, and visuals.
- Designed an animated website using GSAP library in reactjs or simple javascript.
- Implemented various features and functionality using javascript, reactjs, and jQuery.

Education

2022/03 – 2024/03
Lahore, Pakistan

MS Computer Science

University of Management and Technology [🔗](#)

3.5 GPA

Projects

Hospi Housing

AWS Dynamo DB | Kinesis | S3 | Glue | Athena | QuickSight

Executed an ETL pipeline and business intelligence processes on AWS. The pipeline extracts live data from DynamoDB via Kinesis, transforms it using Glue scripts, and crawls into AWS Athena. It then integrates with AWS QuickSight to design dashboards that provide stakeholders with data insights.

Brainivoy ETL Pipeline

Hubspot | Python Flask | Airbyte | AWS S3 | AWS Glue

Designed and implemented an ETL pipeline from HubSpot to AWS. Utilizing the HubSpot developer portal, we built a Flask application that uses OAuth 2.0 for user authentication, extracted data via Airbyte configured on AWS EC2, and created a data lake on AWS using S3 and Glue jobs.

Azure Meal | ETL

Azure Function App | Azure SQL Server Database | Power BI

Designed an ETL pipeline on Azure, where data extraction is triggered by an Azure Function App in response to specific events. The processed data is stored in an Azure SQL Server Database, followed by the generation of a Power BI report.

Sindri Media

Python | SQL | Airflow | DBT | S3 | EC2

Implemented optimized stored procedures and created indexes on frequently queried columns, resulting in significant performance improvements. Additionally, migrated the project to DBT (Data Build Tool) to streamline and enhance the efficiency of data pipelines.

Biiview

Html | CSS | React js | React Bootstrap

Developed a responsive and intuitive user interface for an object recognition system, ensuring a seamless user experience. And collaborated with back-end teams to ensure seamless data flow between front-end and back-end services.

RecruitCoin by Betts

Html | CSS | ReactJS | React Bootstrap

Developed a responsive and interactive front-end interface for the RecruitCoin platform, enabling seamless navigation and user experience. Integrated real-time data flows to display cryptocurrency exchange rates and service offerings. Collaborated with backend teams to ensure smooth interaction between front-end modules and APIs, enhancing the utility coin's exchange functionality. Focused on optimizing UI components for performance across devices, ensuring mobile-friendly design and user engagement.

Skills

Languages

Python, Javascript

Cloud

Amazon EC2, S3, Athena, DynamoDB, Glue, IAM, QuickSight

Web Framework

Python FLASK

Data Science

Exploratory Data Analysis, Data Visualization, Feature Engineerin, Pandas, NumPy, Scikit-Learn, Matplotlib, Keras, Tensorflow, NLTK

Dev Tools

Visual Studio Code, Git, Gitlab

Databases

PostgreSQL, MYSQL

Data Scraping

Python Selenium, BeautifulSoup

Big Data Tools

PySpark, Airflow, DBT, PowerBi, Airbyte

Front-End skills

React.js, Html, React Bootstrap, GSAP, Shopify Polaris, CSS, jQuery, Tailwind CSS

Certificates

- Stanford WIDS Datathon Workshop 2023
- Machine Learning with Python
- Deep Learning Models with TensorFlow