

# Muhammad Razzaq

Data Engineer/ Python Developer/ Data Analyst

muhammad.h.razzaq@gmail.com

+447479871030

Cardiff, United Kingdom

linkedin.com/in/muhammad-hassan-razzaq-679809164

I am a dedicated, motivated, and experienced Data Engineer/Python Developer with over 3 years of experience in software engineering. I have built a strong reputation for resolving problems and enhancing customer satisfaction. Currently, I am employed as a Data Engineer at Mayden House Ltd. My primary language is Python. Additionally, I possess over 2 years of experience with AWS cloud services, and I have gained around 6 months of experience with both GCP and Azure platforms. Furthermore, I am currently expanding my skill set by learning Go.

## WORK EXPERIENCE

### Data Engineer/Data Analyst/ETL developer Mayden House Ltd.

02/2023 - Present

Bath, United Kingdom

Responsibilities of the ETL Developer role Designing, building and deploying new ETL solutions in line with stakeholder specifications. Maintaining and continuously improving the existing ETL suite, ensuring data is handled efficiently and new features are incorporated and released seamlessly. Collaborating closely with other Mayden teams, directors and customers to gather requirements, develop specifications, assist with data requests and deliver solutions in a timely manner. Handling of multiple different and evolving datasets for existing and new markets. Migrating new data from a variety of different systems into our patient management system. Self management of projects and input into planning and quoting of work.

#### Technologies

- AWS, SNS, Lambda, FHIR, Terraform, CI/CD , github actions, Data analysis, API development, Sagemaker, python, R.

### Data Engineer 360 technologies

04/2021 - 05/2022

This was remote job . Here my responsibilities was to develop data pipelines using python and aws services. I was working here as part time while I was doing my masters.

### Python developer / Data Engineer Infoarc AI

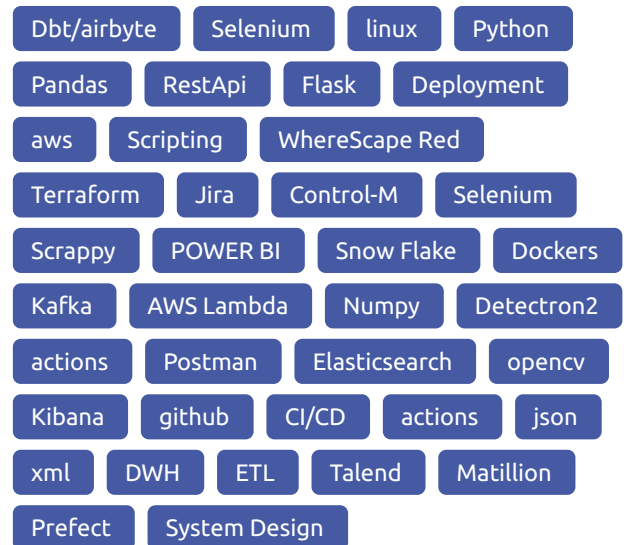
04/2021 - 11/2021

This was sister company of vaporvm . Here my responsibilities was to develop data pipelines using python and develop basic level back end apis using python Django Rest API frame work , Develop data pipelines by Scraping Data from different E-commerce stores using python , Develop custom dashboard using different python libraries and using power BI .

#### Technologies

- Flask, Django, Dockers , Python, Augmentation , Data Visualizations , Data Cleaning , Data Scrapping , Power BI

## SKILLS AND TOOLS



## PROJECTS

### SNOWFLAKE ETL process

- Developed the complete ETL process that fetches the latest trainline data from API and dump into snowflake tables and for reporting side PowerBI is used . All the ETL process is done inside the snowflake environment using the external functions.

### National IAT Reporting (NHS) (04/2023 - Present)

- Developed the CI/CD pipeline which scraps the latest files from the NHS website and dump the data data into test and production databases then the report is generated on tableau.

### MLOPS Pipeline Mayden (Patient attendance prediction) (04/2023 - 05/2023)

- I developed the complete MLOps pipeline for Mayden using GitHub Actions, SageMaker, Lambda, and API Gateways. The entire process is deployed and managed using Terraform, ensuring seamless integration and deployment of machine learning models into production environments.

### package python ETL module for internal use (Mayden) (05/2023 - Present)

- Developed the python modules to for internal use for different etl jobs and deployed on aws glu which was triggered through lambda and step function. The whole resources were deployed through terraform

### Azure CI/CD Pipeline to send message to service bus

- I developed the pipeline by using python which gets the key vault value from key vault and send the message to different topics in service bus .

## WORK EXPERIENCE

### Data Engineer/ Python Developer VaporVm Lahore

06/2020 - 04/2021

Pakistan

My role here is to create Data pipeline and work on AWS cloud different services and machine learning algorithms to analyze and solve complex business problems and use computer vision techniques. I used python for development.

#### Technology

- Python ,opencv , Yolov5, Elasticsearch , Django/Flask , Kafka , Selenium/Scrappy , Detectron2 , Lambda functions , Aws , DynamoDb , Aws Rest Apis

### Data Engineer ADLAB SOLUTIONS

03/2019 - 04/2020

Pakistan

Core Responsibilities: - Associate DBA for LHMSE offshore project. - Level 2 support for Teradata Data Warehouse, troubleshooting and escalating ETL issues for risk mitigation and continuous operations.

## EDUCATION

### Msc Artificial Intelligence University of South wales

09/2021 - 02/2023

#### Courses

- Natural Language Processing
- Artificial Intelligence
- Information Processing Techniques
- Leadership
- Multi Agent
- Evolutionary Computing
- Web Development

### Bs Computer Science National University of Computer and emerging sciences, Islamabad

08/2014 - 01/2019

## PROJECTS

### Du Traffic Analysis (06/2020 - 06/2021)

- I have developed the Highly available Elasticsearch cluster with Logstash , Kibana and performed the ilm policy on indexes ,which manages the mobile traffic coming on different ports for DU telecom company ,Dubai

### Product Availability Tracker (FMCG USECASE) (06/2020 - 09/2021)

- I developed the complete data pipeline by scraping Data from AMAZON , JUMIA , NOON websites for Saudi , UAE , Egypt and developed the dashboard on PowerBI to generate the reports. I used MYSQL database for this .

### Qualys Data to Snow Flake

- Developed the data pipeline for qualys data by using its developer apis and deployed this on lambda aws which triggers on daily basis and dumps data into snowflake .

## ACHIEVEMENTS

Won regional level Football tournament

Data Analyst Certification

Event Head of NASCON Football Tournament 2016

Head of Sports Guild , 2017

## LANGUAGES

Urdu

Native or Bilingual Proficiency

English

Full Professional Proficiency

## INTERESTS

Football (ARSENAL FOR LIFE)

Traveling

Art and music

learn new languages to code in