Jamal Sargana

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Technical Skills

Languages: Python, SQL, Shell/Bash Scripting
Tools and Technologies: Control-M, Docker, NoSQL Databases, Relational Databases, Data Modelling, Confluence, Git, DOMO, Power BI
Platforms: Snowflake, BigQuery, AWS, Ubuntu.
Cloud Technologies: Snowflake Data Warehouse, Snowflake Data Integration, AWS Lambda, AWS Glue, AWS API Gateway, AWS CloudWatch, AWS RDS, GCP BigQuery, Qlik Sense, DOMO

Certifications

Google Data Analytics Certificate
IBM Data Science Professional Certificate (V2)

Work Experience

LHM   **Islamabad, Pakistan**
Data Engineer   **April 2023 - Present**
Technology Stack: Snowflake, Python, SQL, AWS S3, Control-M, DOMO, DBeaver, Power BI

- Orchestrated the entire Extract, Transform, Load (ETL) process, integrating data from diverse sources (APIs, databases, Excel, Google Sheets) into AWS S3 using Python
- Collaborated closely with business teams to understand data requirements, ensuring a focused ETL process and alignment with business objectives.
- Implemented automated data loading from AWS S3 to Snowflake to import, stage, and transform data, showcasing proficiency in cloud-based data warehousing.
- Validated data integrity and authenticity by cross-referencing imported Snowflake tables with initially stored CSV files on S3, ensuring data accuracy throughout the ETL process.
- Engaged in extensive communication with business stakeholders to comprehend data priorities and requirements, tailoring the ETL process to address specific business queries effectively.
- Deployed automated processes to import Snowflake tables into DOMO using DOMO connectors, enabling intuitive data visualization and insights delivery for business users.
- Implemented robust error handling and monitoring mechanisms within Python scripts, ensuring the reliability and accuracy of the automated ETL pipeline.
- Developed conceptual, logical, and physical data models by interpreting documentation and available information.
- Utilized Entity-Relationship Diagrams (ERDs) to visually represent and analyse relationships among data entities and attributes for efficient database structures.
- Designed and optimized database schemas based on comprehensive ERD analysis, ensuring efficient data storage, retrieval, and scalability in line with project requirements.

Overstock   **Islamabad, Pakistan**
ETL Developer   **May 2021 - March 2023**
Technology Stack: Google Cloud BigQuery, Qlik Sense, Control-M, Bash Scripts, Confluence, Git

- Orchestrated ETL operations using Control-M, Python, and SQL scripts, ensuring seamless extraction, transformation, and loading of large-scale data from diverse sources into BigQuery.

- Managed large number of daily data pipelines, overseeing data integration processes crucial for generating daily financial summaries, providing timely and accurate insights for critical business decisions.
- Adapted swiftly to integrate new data sources, designing and structuring BigQuery tables to accommodate evolving data requirements for the daily financial reporting process, showcasing agility and adaptability.
- Implemented continuous improvements in ETL processes, leveraging feedback and analysis to optimize pipelines, ensuring reliable and efficient data extraction and integration for analytical purposes.
- Implemented strategies to ensure swift response times and efficient ETL processes for data sources with sizes reaching hundreds of GBs, mitigating errors and issues related to duplicates, null values, data types, API delays, and versioning discrepancies.
- Ensured data quality and integrity by addressing data-related issues proactively, validating and authenticating data sources to guarantee accurate financial reports crucial for business decision-making.

XPERTFLOW   **Islamabad, Pakistan**
Software Developer   **Sept 2019 - April 2021**
- Developed mobile-friendly layouts using media queries and responsive design practices to ensure seamless user experiences across various devices.
- Assisted in designing intuitive user-interfaces, incorporating modern design principles, user-centered design, and accessibility considerations.
- Collaborated with QA teams to identify and resolve front-end issues, ensuring a smooth and error-free user experience.
- Assisted in optimizing front-end code for performance, including minimizing page load times and reducing unnecessary

Smartech Consulting   **Lahore, Pakistan**
Software Engineer   **October 2018 – August 2019**
- Worked with back-end team to integrate front-end components with server-side functionality using APIs.
- Created interactive prototypes and mockups to visualize and iterate on userinterface designs.
- Collaborated with stakeholders to implement UI/UX enhancements, contributing to improved user engagement and satisfaction

Education

School of Electrical Engineering & Computer Science, NUST   **Islamabad, Pakistan**
Masters of Science in Information Technology   **September 2019 - July 2021**

School of Electrical Engineering & Computer Science, NUST   **Islamabad, Pakistan**
Bachelors of Science in Computer Science   **September 2014 - July 2018**

Projects

ATTACK PREDICTION SYSTEM USING ML   *Pandas, Scikit-Learn, TensorFlow, Keras, Numpy*
Developed and intelligent intrusion detection system for smart water treatment and distribution plants for critical infrastructure. Random Forest, SVM and Neural Network used for evaluation of Accuracy, F1 score and Precision-recall for the system.

DATA INTEGRATION AND SALES ANALYTICS   *Python, Snowflake, SQL, Data Warehousing*
Led the design and execution of a data integration and analytics automation project to empower the sales team with real-time insights and performance metrics for informed decision-making

VIDEO QUALITY EXPERIENCE INDICATOR   *Python, Colab, Supervised Learning, CNN*
Trained machine learning models to predict the "Quality of Experience" which is an indicator that denotes how much the user is satisfied of YouTube video streaming sessions using network level measurements