Moonlie Fong-Whittaker

Data Engineer

RELEVANT WORK EXPERIENCE

Latymer Foundation, London

Database and Finance Manager

01/2024 - 10/2024

- Handled data for £5 million in annual revenue using SQL and RDBMS for transaction reconciliation and campaign review reporting.
- Enhanced workflow by identifying operational risks, outsourcing over 200 direct debits to Donor Debit, and leading a data migration.
- Enhanced legacy databases by refining data structures and standardising entries, leading to fewer manual corrections and improved accuracy in reports.
- Collaborated with the Data Protection Officer and teams to address and resolve data leaks promptly.

Royal College of Music, London

Development Operations Manager (Data and Research)

06/2023 - 12/2023

- Oversaw £5M in in-year revenue and £7M in new revenue by overseeing pledge payments and ensuring accurate data management for fundraising activities.
- Orchestrated data integration initiatives by importing large alumni cohorts and reconciling financial data from over 5+ sources, including BACS, Spektrix, and CAF.
- Trained over 40 users on Raiser's Edge NXT, ensuring data accuracy and security while maintaining compliance with data governance protocols.
- Delivered data analysis for the annual review report and CASE Insights Survey.

Imperial College, London

People and Organisational Development Coordinator 07/2018 - 06/2023

- Co-led the creation and management of Imperial's largest staff mentoring database, automating workflows and maintaining data accuracy through regular cleansing using Power Automate.
- Directed data integration projects across four faculties, enhancing the system's reach and optimising performance by responding to user feedback.
- Mapped and analysed business processes using MS Visio and Excel, delivering data-driven insights.

University of Greenwich, London

BAME Awarding Gap Project Manager

08/2017 - 08/2018

- Managed data collection, collation, and evaluation for the Office for Students-funded Value-Added (VA) dashboard project, part of the race equality initiative aimed at closing the BAME awarding gap.
- Ensured GDPR compliance and data governance for sensitive student data, implementing secure and ethical data handling practices.

CONTACT

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SKILLS

Technical Skills:

- Python
- · SQL
- · AWS
- Spark
- Databricks
- Kafka
- Airflow
- · git

Languages:

- English (Native)
- Dutch/Flemish (Native)
- Mandarin (Conversational)
- Cantonese (Conversational)
- · German (Basic)

EDUCATION

Birkbeck College

Masters of Science Education, Power & Social Change London, UK 10/2016 - 09/2018

School of Oriental and African Studies

Bachelor of Arts Chinese Language and Culture London, UK 10/2010 - 07/2014

OTHER

Databricks Certified Data Engineering Associate (in progress)

CIPD Level 5 - Learning and Development Associate Diploma Conceptualised the development, training, and data interpretation for the Tableau dashboard, guiding stakeholders on how to understand the methodology and interpret the insights for departmental analysis.

Other Previous Experience

01/2014 - 07/2017

- Engineered an MS Access database that streamlined the booking process for 800 library workshops, reducing processing time by 75% and allowing staff to focus on academic tasks.
- Led a data migration project at UAL, integrating 3,000 curriculum data points, improving insights and operational efficiency for academic teams.
- Spearheaded data reporting for Race Equality projects, synthesising findings from 100+ survey responses to deliver insights that influenced policy changes and enhanced inclusivity.

PROJECTS

AWS Data Engineering Pipeline

08/2024

- Implemented an end-to-end AWS-based data engineering pipeline that leveraged both batch and stream processing to analyse over 30k rows of data.
- Provisioned an API Gateway RESTful API to leverage a Kafka REST proxy
 & send data to 3 different Kafka topics on MSK.
- Distributed batch data from MSK to an AWS S3 data lake using MSK Connect plugin-connector pair.
- Created custom Spark transformations on Databricks, to clean and aggregate data stored in the S3 data lake.
- Automated Databricks Workloads to run daily using custom-made DAG scripts on MWAA.
- Streamed data in real-time using 3 AWS Kinesis data streams & performed near real-time analysis using Spark Structured Streaming on Databricks.

Multinational Data Centralisation Pipeline

07/2024

- Developed a system that extracts sales data from 5 data sources: PDF documents, AWS RDS database, RESTful API, JSON & CSV files.
- Created custom Python scripts to clean and transform over 120k rows of data before loading the data into a PostgreSQL database.
- Designed a star-schema database by joining five dimensions tables, resulting in data querying time with < 1 millisecond latency.
- Designed >10 complex SQL queries to extract business insights from the data, including the velocity of sales, yearly revenue and regions with the most sales.