JHELAN SUGGUN

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PROFILE

Dedicated Data Engineer with experience in designing and automating data pipelines for ETL/ELT processes. Proficient in data ingestion and processing as well as database management systems. Experienced in cloud computing, AWS, and handling both batch and real-time data streams using Kinesis and Databricks.

SKILLS

Languages: Python, JavaScript (ES6+) / Typescript, C, SQL
Front-End & Back-End: HTML/ CSS, ReactJS, NextJS, Bootstrap, Material UI, NodeJS, Express
Databases: PostgreSQL, MongoDB, Firebase
Cloud Computing: AWS (VPC, EC2, RDS, S3, MSK, MWAA, IAM), Apache Kafka, Spark, Airflow, Databricks
Other Tools: GIT, GitHub, Linux, CI/CD

PROJECTS

Pinterest Data Pipeline
- Technologies used: Kafka, AWS MSK, MSK Connect, AWS API Gateway, AWS S3, Spark, Spark Structured Streaming, Databricks, Airflow, AWS MWAA, AWS Kinesis.
- Developed an end-to-end data processing pipeline hosted on AWS based on Pinterest's experimental processing pipeline, including the development of an API using AWS API Gateway and integration with AWS MSK and MSK Connect for data distribution to an S3 data lake.
- Extracted batch data from AWS S3 and transformed it in Databricks using pySpark
- Used AWS MWAA to orchestrate Databricks Workloads
- Implemented real-time data streaming via AWS Kinesis and conducted near real-time analysis using a Spark cluster on Databricks.

Multinational Retail Data Centralisation
- Technologies used: Python, APIs, PostgreSQL, Pgadmin4, Pandas, AWS RDS
- Developed a system that extracts retail sales data from different data sources; PDF documents; an AWS RDS database; RESTful API, JSON and CSV files.
- Thoroughly processed and cleansed a substantial volume of 100k+ records, preparing the data for modelling within a star-based database schema.
- Conducted in-depth analysis of the processed data, unveiling valuable insights relevant to the retail industry for enhancing business operations and decision-making processes.

EDUCATION

AICORE – Data Engineering   Sept 2023 – Nov 2023
- Gained hands-on experience and enhanced teamwork skills by collaborating on real-world application through project-based learning and applying key software engineering principles.

UNIVERSITY OF SOUTHAMPTON – MEng Mechanical Engineering   Jul 2018 – Jul 2022
- First Class Honours

WORK EXPERIENCE

NHS (*Band 3 Admin & Clerical)*   Apr. 2023 – Present
- Collaborated across departments, enhancing patient safety protocols, and improving patient data accuracy using various IT systems to elevate healthcare standards.