

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

WORK EXPERIENCE

AICORE (Support Engineer)

Nov. 2023 – Present

- Provided specialized assistance in core technologies such as AWS, Kafka, Spark, Airflow, Docker, Kubernetes, and Terraform, aiding students in setup, debugging, and effective utilization, enhancing their technical proficiency.
- Conducted meticulous code reviews for Python projects utilizing SQL Alchemy and PostgreSQL, ensuring high-quality standards and best practices in line with data engineering requirements.
- Demonstrated exceptional problem-solving skills with a rapid average response time of 2 minutes for support tickets, addressing diverse issues from programming challenges to cloud service access and permissions.
- Streamlined internal communication and project management by effectively utilizing and managing changes through tools like Slack and ClickUp, contributing to improved operational efficiency and content delivery.

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

- 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 modeling 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

UNIVERSITY OF SOUTHAMPTON – MEng Mechanical Engineering

Jul 2018 – Jul 2022

- First Class Honours