JHELAN SUGGUN

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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 (EC2, RDS, S3, MSK, MWAA), Apache Kafka, Spark, Airflow, Databricks
Other Tools: GIT, GitHub, Linux, CI/CD

Education

AICORE IMMERSIVE PROGRAM (DATA ENGINEERING)   Nov 2023
- Completed intensive training in data engineering, and gained proficiency in Python for data manipulation, data pipeline construction, cloud computing (AWS), and database management.
- Gained hands-on experience and enhanced teamwork skills by collaborating on real-world application development through project-based learning, applying key software engineering principles.

UNIVERSITY OF SOUTHAMPTON
MEng Mechanical Engineering (First Class Honours)   Jul 2022

Projects

Pinterest Data Pipeline | Link
- Built a scalable data pipeline architecture using **AWS, Apache Kafka, S3** and **Databricks**, simulating a high-volume data environment similar to Pinterest.
- Implemented **AWS Kinesis** for real-time data processing which increased data throughput efficiency.
- Utilized **Amazon S3** for data storage, ensuring data security and enabling easy future analysis.
- Employed Managed Workflows for **Apache Airflow (MWAA)**, enhancing data processing automation using **DAGs** and reducing manual intervention.

Multinational Retail Data Centralisation | Link
- Centralized diverse datasets into a **PostgreSQL** database, improving data analysis efficiency.
- Streamlined data management processes using **Python** and **SQL**.
- Developed **SQL** queries to support strategic decision-making.
- Ensured secure database credential management and effective use of **SQLAlchemy**.

QuizMaster | Link
- Developed a secure full-stack quiz application with **ReactJS, NodeJS, MongoDB, bcrypt,** and **JWT**.
- Designed and optimized **RESTful API** endpoints, improving data retrieval efficiency.
- Managed **MongoDB** interactions using **Mongoose**.

FireBlog | Link
- Developed a multi-authentication blog platform using **React, Material UI,** and **Firebase** which provides enhanced user accessibility and prioritizing data security.
- Streamlined post creation and image uploads using Firebase, enhancing data management efficiency and user experience.

Work Experience

NHS   London, UK
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.