MUHAMMED ADEEM SHAIK

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PROFESSIONAL EXPERIENCE

Software Engineer, Apple, Seattle   📅 May 2023 - Present
- **Tech Stack** - **AWS, Kubernetes, Spark, Airflow, Hive, Flink, SQL, Python**
- Contributed to the development of a hybrid-cloud, multi-tenant data platform, aiming to optimize Data Engineering, Machine Learning, and Analytical processes for enhanced scalability and efficiency across diverse teams.
- Enhanced core products such as Apple Maps, Search, and Siri by integrating our cutting-edge data platform, which utilizes the latest big data technologies, boosting their AI/ML functionalities.
- Developed and designed ETL processes from intermediate or raw (log) tables, focusing on enhancing data quality through meticulous data cleaning and processing, supporting various advanced analytics and AI/ML applications.
- Designed and deployed a high-capacity streaming ingestion platform, handling up to 1 trillion events daily, using Kafka and Spark Streaming within a Kubernetes environment.
- Contributed in upgrading a scalable data warehouse system, focusing on effective data integration and storage solutions, key to elevating analytics capabilities and data management efficiency.

Software Engineer, Deloitte, Bengaluru, India   📅 August 2019 - July 2021
- **Tech Stack** - **AWS, Azure Databricks, Spark, Scala, Airflow, SQL, Python.**
- Worked on an application to assist packaged consumer manufacturers in identifying components that impact sales, such as pricing, distribution, promotion, and advertising, and to compare their performance with competitors.
- Conceptualized and developed a data analytics framework for a consumer insights application, handling 30 TB of multi-source data, using AWS Redshift for high-performance data warehousing.
- Developed data processing pipelines with AWS Kinesis and Spark, which enhanced data analysis capabilities and supported in business decision-making.
- Orchestrated and automated a data pipeline for a zero-touch application using Apache Airflow, that reduced the cost of operations by 30%.
- Received 3 Spot Awards for consistently on-time project delivery and customer commitment.
- **Tech Stack** - **AWS, Spark, Kafka, Airflow, Tableau, SQL, Python**
- Built ETL pipelines to extract, transform, and load large volumes of data from various sources into data warehouse enabling near-real-time data analysis and decision-making.
- Worked on implementing data models and schemas for optimal storage, retrieval, and analysis of data.
- Built automated data quality and validation checks to ensure data accuracy and consistency, reducing errors by 40%.

PROJECTS

Log File Monitoring and Alert System   *AWS(EKS, EMR, SNS, ECR), Apache(Spark, Kafka)*
- Designed and Developed an cloud architecture which uses a log file generator application deployed onto an AWS Elastic Kubernetes cluster to write logs into AWS Elasticache Redis Database.
- Utilized the AKKA actor system's ability to continuously monitor database and forward errors to a Kafka Topic and used an AWS EMR Spark Cluster to stream logs from the topic to alert stakeholders.

Aviation Data Pipeline   *GCP(GCS, Big Query, Data Studio, Wrangler), Python, Docker, Airflow*
- Built an end-end data engineering pipeline to analyze the aviation data of individual airline, airline sectors and industry as a whole. Created an ETL pipeline using Data Fusion(GCP)to visualize the data from airline API using kafka and batch processing.

AzureFlow   *Azure(DevOps), Terraform, Jenkins, Python, Bash*
- Developed an efficient Azure cloud infrastructure for large-scale research data management. Also, automated a CI/CD pipeline with Azure DevOps, Terraform, and Jenkins for optimized software builds, tests, and deployments.

SKILLS

Data Processing & Management Apache (Hadoop, Kafka, Spark, Airflow, Flink, Ranger), Trino, Docker, Kubernetes

Monitoring, Infrastructure & CI/CD Datadog, Jenkins, Splunk, Pulumi

Databases & Cloud MySQL, MongoDB, Redis, AWS, Azure, GCP

Programming Java, Python, JavaScript, SQL, HTML/CSS, PHP, Scala

Web Technologies HTML5, CSS, Bootstrap

EDUCATION

Masters in Computer Science - University Of Illinois Chicago, Illinois   📅 Aug 2021 - May 2023
PG Diploma in Data Science - IIIT Bangalore, India   📅 Jan 2020 - Jan 2021
Bachelors in Computer Applications - Bangalore University, India   📅 May 2016 - June 2019