

MUHAMMED ADEEM SHAIK

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EDUCATION

Masters in Computer Science - University Of Illinois Chicago, Illinois

📅 Aug 2021 - May 2023

Courses: Algorithms, Networking, Parallel & Distributed Systems, Cloud Computing, Information Retrieval

PG Diploma in Data Science - IIIT Bangalore, India

📅 Jan 2020 - Jan 2021

Courses: Machine Learning, NLP, Advanced SQL, Principles for Big Data.

Bachelors in Computer Applications - Bangalore University, India

📅 May 2016 - June 2019

Courses: OOPS Java, Data Structures, Software Engineering, Unix Programming, Operating Systems.

PROFESSIONAL EXPERIENCE

Software Engineer, Deloitte, Bengaluru, India

📅 August 2019 - July 2021

• Tech Stack - Azure Databricks, Spark, Scala, Airflow, 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.
- Created a data-based framework to read 30 TB of data from multiple sales acquisition channels and analyzed sales activity for 5 years in various regions across the globe.
- Ordering UI (ideation, planning and coordination): Worked with the UI team to create a platform where the product leaders can set up jobs with required parameters and jobs run cadence.
- Actively worked on the orchestration of the pipeline where the application trigger points were reduced from two to a zero-touch application with the help of Apache Airflow, that reduced the cost of operations by 30 %.

• Tech Stack - SAP, ABAP, HANA, BASIS, SAP NetWeaver

- Worked on a project to automate manual and error-prone processes, resulting in a 50% reduction in manual workload and improved accuracy in critical business operations for the client.
- Engineered custom ABAP solutions to streamline operations, resulting in a 30% increase in productivity.
- Implemented and managed multiple SAP landscapes, ensuring system stability and high availability.
- Designed and implemented disaster recovery and backup strategies, reducing the risk of data loss.
- Received SAP Beacon Award for exceptional project contribution, showing technical skills and teamwork.

PROJECTS

Log Generator: Map Reduce

AWS EMR, Apache Hadoop

- Implemented distributed parallel processing in Hadoop Map Reduce to classify logs based on time interval and frequency, ensuring accurate and up-to-date log analysis.
- Source code is deployed as JAR file onto AWS Elastic Map Reduce Cluster and Python lambda function is used to analyze log files.

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 the AWS Elasticache Redis Database and forward errors to a Kafka Topic.
- Implemented an AWS EMR Spark Cluster to stream logs from the Kafka 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.
- Visualized the processed data in big query using Data studio to compare the performances of various airlines.

SKILLS

Tools&Frameworks: GIT, SAP, Apache(Hadoop, Kafka, Spark, Airflow), Docker, Power BI

Databases&Cloud: MySQL, Mongo DB, Redis, AWS (EMR, EKS, EC2), GCP

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

Web Technologies: HTML5, CSS, Bootstrap