

Arman Hussain

Accountable & Passionate data practitioner with 3 Years of experience into Data Engineering with expertise on Microsoft Azure Data Platform and Databricks.

Work Experience

Nov 2021-Present	Associate Software Engineer – Capgemini Engineering (Pune, India) Azure (Databricks, Data Factory (ADF), Synapse Analytics, Data Lake), T- SQL, Pyspark, Azure DevOps
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Skills & Competencies

Technologies	Microsoft Fabric, Azure Stream Analytics, Azure IoT Hub, Azure SQL, Azure Functions App, Logic apps, Azure API Management, Event Grid, Azure Event Hub, Azure Digital Twin
Tools/ Languages	Python, Golang, SQL, FastAPI, Power BI, Linux(Ubuntu/CentOS/RedHat), Kubernetes, Docker
Database/Storage	Azure Data Lake (ADLS), OneLake, Azure CosmosDB, Blob, AWS S3,Dynamo DB, Microsoft SQL Server, Azure SQL, Google Big Query,

Education & Certifications

Microsoft Certified Azure Data Engineer Associate DP-203 (Certification no: 1ED0ED-9320A0)
Microsoft Certified Azure Solution Architect Expert AZ-305 (Certification no: 511BUD-1D6CDE)
Microsoft Certified Azure IoT Developer Speciality AZ-220 (Certification no: 9923Y-887566)
Bachelor of Engineering in Electrical Engineering - Jorhat Engineering College

Skills Summary:

- Experience with **Microsoft Fabric**, Azure Databricks with **Delta Lake, Delta Live Tables, Unity Catalog, Autoloader**, and **Amazon Web Services (AWS)**- S3,Dynamo DB, RDS, Lambda and also have exposure to **Snowflake**
- Experience in designing, developing and maintaining data pipelines and ETL processes using Azure Data Factory, Azure Synapse Analytics and Azure Databricks for data ingestion, transformation and delivery to various destinations.
- Proficient in creating and implementing Azure Data Factory(ADF) pipeline for both batch and incremental load using **Change Data Capture(CDC)** for seamless data ingestion, transformation, and loading in Microsoft Azure Cloud.
- Excellent understanding of Azure SQL with proven experience with performance monitoring, analysis, and tuning of relational databases, as well as T-SQL querying abilities, including writing stored procedures, views, tables etc.
 - Configure and manage Azure API Management (APIM) to enable seamless integration, monitoring, and security of APIs, ensuring high availability and performance
- Design serverless applications using Azure Functions and integrate with other Azure services like Azure Storage, Cosmos DB, and Event Grid.
- Good understanding of Azure DevOps, CI/CD pipelines. Orchestration, containerization tools like Docker and Kubernetes.

Projects Details: -

Predictive Maintenance – Rio Tinto

Pune, India

- Created robust data pipeline in Azure Synapse Analytics using different services to extract, transform and load data from different sources like S3, Blob storage, SQL Server into Azure Data Lake Gen2(ADLS).
- Designed Azure Logic apps application to send pipelines success/failure alert emails, file unavailability notifications etc.
- Monitored and managed batch pipelines in Azure Synapse Analytics, ensuring timely identification and resolution of pipeline failure.
- Executed hotfix deployment, automated CI/CD and test-driven development pipeline using Azure DevOps, ensuring optimal performance of data workflow.
- Used hyperlink activity & loop services within Synapse to build an automated system which runs for each REST APIs.

Intelligent operation Platform (IOP) – Digital Manufacturing Pune, India

- Design, develop, and maintain efficient and robust data pipelines for extracting, transforming, and loading data from various sources to data warehouses, data lakes, and other storage solutions.
- Driving Scalable IoT Data Solutions for developing & optimizing pipelines, architecting Lakehouse systems and enabling real-time insight.
- Implemented advanced data solutions in Azure Data Factory and Databricks including configuring cluster setups, Delta lake & Lakehouse architecture for efficient data storage and retrieval.
- Developed Streaming pipelines using **Azure IoT Hub** and Stream Analytics to analyze data for efficiency and data coming in from IOT.
- Designed and developed pipeline, ingesting data from REST APIs to Azure Database using Azure Databricks.
- Performance tuning of Delta tables using Optimize and ZORDER operations, cleaning old snapshots through VACUUM procedure.
- Semi-structured data transformation to structured data in Azure Databricks & maintain a central repository.
- Implementing slowly changing dimensions to maintaining Historical data in Required Dimension Tables.
- Automated the ADF pipelines by using triggers and schedulers and automate data pipelines through CI/CD in Azure DevOps.
- Used SQL stored procedure for staging & development collaborating with Azure Data Factory.

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