

Mayhar Jabbo

Senior Data Engineer / Data Platform Engineer

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PROFILE

Senior data engineer with 5+ years in production data engineering and 13 years in enterprise technology. Designs and owns manufacturing data systems from MES, ERP, and machine sources through Databricks and SQL Server pipelines, semantic models, APIs, and operational applications. Combines platform architecture with hands-on production support across code, data, infrastructure, and CI/CD.

SELECTED IMPACT

Hours to under one minute. Re-engineered a critical ingestion path with improved Spark transformations, partitioning, incremental loads, and orchestration.

Configuration instead of one-off code. Built metadata-driven onboarding for source connections, transformations, load behavior, validation, and target creation.

Operational continuity during an outage. Shipped a live MES dashboard that became the injection molding floor's production view during an extended vendor-system outage.

Metrics operators could trust. Reverse-engineered and documented undocumented MES and ERP logic for cycles, downtime, scrap, speed, and OEE.

PROFESSIONAL EXPERIENCE

Senior Systems Analyst | Data Engineering & Platform Architecture

Jun 2021 - Present

Mayco International | Sterling Heights, Michigan

- Architected and delivered an Azure Databricks lakehouse using ADLS Gen2, Apache Spark, Delta Lake, and bronze, silver, and gold layers from initial design through production operation.
- Created a reusable Python, SQL, and Spark ingestion framework driven by metadata for source onboarding, orchestration, transformation, validation, schema evolution, and target-table creation.
- Cut a critical end-to-end ingestion workflow from multiple hours to under one minute by redesigning transformations, partitioning, incremental-load patterns, and workflow execution.
- Integrated MES, IBM i/DB2 for i ERP, SQL Server, SharePoint Online, Microsoft Graph, REST APIs, and IoT sources with structured logging, data-quality checks, recovery paths, and production monitoring.
- Built SQL Server warehouse integrations spanning production, maintenance, purchasing, quality, shipping, and ERP data for operational analytics and enterprise reporting.
- Developed Power BI and Fabric semantic models, DAX measures, and Power Query transformations; moved expensive logic into SQL and Databricks to improve refresh reliability and capacity use.
- Reverse-engineered undocumented MES and ERP schemas, validated metric behavior against source and audit data, and documented interpretations before exposing them to applications and reports.
- Delivered versioned platform and application changes through VS Code, Git, Azure DevOps CI/CD, and separate development and production environments; owned monitoring, incidents, and production support.

ADDITIONAL EXPERIENCE

IT Supervisor

Jul 2020 - Jun 2021

Mayco International | Sterling Heights, Michigan

- Led technical teams supporting enterprise infrastructure and manufacturing systems, coordinating priorities, incident recovery, documentation, and cross-functional resolution.
- Automated monitoring and ticketing workflows and established repeatable support practices that improved visibility, escalation handling, and operational continuity.

IT Support and Technician Roles

2013 - Jun 2020

Mayco International | Sterling Heights, Michigan

- Progressed through hands-on roles across plant and business systems, building a practical foundation in infrastructure, applications, databases, networking, security, and manufacturing technology.
- Used PowerShell, SQL, scripting, and technical documentation to automate recurring work, standardize support, and improve handoffs between users, infrastructure teams, and application owners.

SELECTED ENGINEERING WORK

Live MES production dashboard

Node.js | Express | SQL Server

Built a cached, live wall-display application with machine state, cycle history, process-parameter trends, scrap detail, and controlled downtime corrections through the vendor's supported procedure. Designed write paths with transactions and guardrails after validating the MES data model and audit trail.

ERP to SharePoint synchronization

.NET 8 | DB2 for i | Graph

Created a configuration-driven scheduled application that reconciles IBM i result sets with SharePoint lists, batches writes through Microsoft Graph, coerces destination types, scopes multi-library data, and skips unchanged records using hashes and delta-token checks.

Custom Power BI visuals

TypeScript | pbiviz | DAX

Designed, packaged, versioned, and deployed four tenant visuals for maintenance, safety, and week-based reporting when native visuals could not reproduce the operational layouts teams already used.

TECHNICAL SKILLS

Languages

Python, SQL/T-SQL, Spark SQL, C#/.NET, TypeScript, JavaScript, PowerShell, DAX, Power Query/M

Data platforms

Azure Databricks, Apache Spark, Delta Lake, ADLS Gen2, SQL Server, IBM i/DB2 for i

Architecture

Lakehouse and medallion patterns, ETL/ELT, batch and incremental processing, metadata-driven orchestration, data modeling

Integration

REST APIs, Microsoft Graph, SharePoint Online, ODBC, MES, ERP, IoT, scheduled applications

Quality & delivery

Schema evolution, data-quality controls, structured logging, observability, Git, Azure DevOps, CI/CD, incident response

Analytics

Power BI, Microsoft Fabric, semantic models, DAX, Power Query, custom Power BI visuals (pbiviz)

EDUCATION

Master of Science in Data Analytics | Walsh College, Troy, Michigan

Jun 2026

Bachelor of Science in Computer Engineering | Wayne State University, Detroit, Michigan

May 2018