

**Frank P. Runfola**

**Azure Data Engineer (Medallion Architecture)**  
**Systems & Automation Architect**

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## SUMMARY

System & automation architect pivoting into Azure data engineering. 10+ years building data-heavy integrations, CI/CD automation, and reliable processing in regulated healthcare/insurance. Recently built Medallion (Bronze/Silver/Gold) pipelines on Azure using ADF, ADLS Gen2, Databricks, and Synapse, with an emphasis on data quality, cost-aware design, and repeatable deployments.

## CORE SKILLS

- Azure data engineering: Azure Data Factory (pipelines/triggers), ADLS Gen2, Azure Databricks, Synapse Analytics
- Lakehouse patterns: Medallion architecture (Bronze/Silver/Gold), Delta/Parquet, batch orchestration
- Data engineering: ETL/ELT, data quality & quarantining, schema design, KPIs/aggregations, SQL optimization
- Programming: Python, SQL, C#, PowerShell; modular codebases and notebook-driven development
- DevOps: Git, Jenkins, GitLab CI/CD, environment orchestration, automated testing and reporting
- Analytics : Power BI reporting; metrics extraction via APIs

## AZURE DATA ENGINEERING PROJECTS

### Earthquake Medallion Pipeline

GitHub: <https://github.com/FrankRunfola1229/earthquake>

- Built an end-to-end pipeline that ingests daily earthquake events from the USGS API via Azure Data Factory.
- Processed raw to curated data in Databricks notebooks across Bronze/Silver/Gold layers; stored in ADLS Gen2.
- Enabled analytics-ready querying in Synapse, with optional Power BI consumption.
- Used secure access patterns (managed identity / Unity Catalog-style external access) to avoid secrets in code.

### Bank Customer KPI Medallion ETL

GitHub: <https://github.com/frankrunfola-data-engineering/bank-customer-kpi-medallion-etl>

- Designed a clean, modular project structure for a Medallion-style ETL that produces customer KPI aggregates.
- Implemented repeatable runs (config-driven pipeline runner) and pragmatic data-quality gates.
- Kept it recruiter-friendly: readable notebooks plus Python modules that mirror how teams ship production ETL.

### Movies Medallion Mini (Data Quality + Quarantine Pattern)

GitHub: <https://github.com/frankrunfola-data-engineering/movies-medallion-mini>

- Built a small Medallion pipeline around movie records (title, release\_year, rating) to practice quality enforcement.
- Quarantines invalid ratings (outside 1-10) and produces a clean analytics-ready dataset for downstream use.

## PROFESSIONAL EXPERIENCE

### Test Automation Manager & System Architect | Roswell Park Cancer Center | Remote (Buffalo, NY) | Dec 2022 - Present

- Lead automation engineering team to deliver reliable end-to-end validation for healthcare revenue-cycle projects.
- Built Jenkins pipelines that create patient test data to execute regression suites; improved repeatability and run time.
- Created Power BI reporting using Python + GitLab REST APIs to publish delivery and workflow metrics.
- Developed reusable Python utility libraries to extend Robot Framework data objects and test capabilities.

## **Senior Application Developer | Highmark Health**

Remote (Pittsburgh, PA) | Sep 2019 - Dec 2022

- Redesigned document ingestion and archival workflows; improved reliability of high-volume processing pipelines.
- Refactored legacy Python 2.4 rules into transportable C# components exposed via REST APIs.
- Implemented scan/transform/load services and indexing patterns for flexible JSON deserialization.

## **Software Application Developer | Centene Corporation | Getzville, NY | Jan 2019 - Sep 2019**

- Built SQL Server stored procedures and tables supporting centralized configuration and data quality checks.
- Developed .NET MVC tooling to flag missing fields in document extracts required for claims workflows.

## **Application Developer I | Highmark Health | Buffalo, NY | Jun 2015 - Jan 2019**

- Built C# and T-SQL programs to analyze member data and improve processing performance of claims workflows.
- Supported weekly healthcare claim submissions totaling ~\\$20M; maintained active job scheduling and X12 transfers.
- Designed REST APIs and database components to create reusable processing modules and speed delivery.

## **EDUCATION**

Bachelor of Science in Computer Science, State University of New York at Buffalo (2015)

## **CERTIFICATIONS**

ISTQB Certified Foundation Level v4.0 Training (Aug 2023)