

Mohammad Haider

Data Platform Engineer

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SUMMARY

Software engineer with 4 years of experience building correctness-sensitive data systems, financial reporting infrastructure, and reproducible analytics pipelines. Experienced owning migrations, reconciliation, performance validation, deployment, and operational support.

EXPERIENCE

University of Virginia | Data Analyst

May 2025 - Mar 2026

- Owned Tableau reporting products for institutional stakeholders from discovery through implementation, deployment, and ongoing support.
- Translated ambiguous operational questions into SQL-backed metric definitions and decision-support dashboards.
- Collaborated with colleagues to investigate Tableau performance bottlenecks using telemetry, informing optimization work that improved organization-wide dashboard load times by approximately 20%.

Microsoft | Software Engineer - Data & Analytics

Jul 2021 - Jul 2024

- Migrated Microsoft's internal financial reporting platform from SSAS Multidimensional to Tabular with zero downtime, owning implementation, telemetry, production validation, and operational support.
- Extended automated financial-value reconciliation between legacy and replacement systems, preserving correctness throughout the migration and improving data quality.
- Built and maintained Azure-based financial reporting pipelines supporting business-critical planning and financial close operations.
- Reduced representative filtering latency by up to 200x and user-visible Excel loading time by approximately 4x, measured through production telemetry and user reports.

Microsoft | Software Engineering Intern

Summers 2017, 2018

- Built internal engineering tools supporting reporting infrastructure and developer workflows across multiple engineering teams.

SELECTED PROJECTS

Indigo Circuit | DuckDB, dbt

- Built a nightly platform that ingests API and scraped tournament data, recomputes Glicko-2 ratings, rebuilds dbt marts, and validates a shadow DuckDB database before atomically promoting it to production.

Social Vulnerability & Health Outcomes in America | Python, statistical analysis

- Designed and executed a census-tract analysis across approximately 73,000 tracts, testing relationships between 16 CDC vulnerability indicators and 36 health outcomes through correlations and state-disparity comparisons.

RareDex | PostgreSQL, SQLAlchemy

- Built a Flask data application that records scans, recognition failures, price snapshots, and user collections in PostgreSQL, with Alembic migrations and a layered OCR-to-pHash identification fallback.

TECHNICAL SKILLS

Languages: Python, SQL, C#, Java, R

Data platforms: DuckDB, dbt, Azure Data Factory, Azure Data Lake, SSAS Tabular

Analytics: Pandas, NumPy, Tableau, Power BI

Engineering: Flask, PostgreSQL, SQLAlchemy, REST APIs, Git, Azure, monitoring

EDUCATION

Virginia Tech | B.S. Statistics