

Mohammad Haider

Analytics Engineer

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SUMMARY

Analytics engineer and software engineer with 4 years of experience building SQL-backed reporting systems, reproducible data pipelines, and decision-support dashboards. Experienced translating ambiguous operational questions into measurable metrics and maintaining correctness-sensitive production analytics.

EXPERIENCE

University of Virginia | Data Analyst

May 2025 - Mar 2026

- Owned Tableau analytics 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.
- Reduced representative filtering latency by up to 200x and user-visible Excel loading time by approximately 4x, measured through production telemetry and user reports.
- Built and maintained Azure-based financial reporting pipelines supporting business-critical planning and financial close operations.

Microsoft | Software Engineering Intern

Summers 2017, 2018

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

SELECTED PROJECTS

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

- Designed and executed analysis of 16 CDC vulnerability indicators and 36 health outcomes across approximately 73,000 tracts; produced correlations, state rankings, scatterplots, and a national choropleth with literature-grounded causal caveats.

Indigo Circuit | DuckDB, dbt

- Built dbt marts and a Bayesian EV model that shrinks sparse card effects toward archetype baselines and reports 90% credible intervals alongside Glicko-2 and field-aware player rankings.

RareDex | OpenCV, PostgreSQL

- Built a card-identification pipeline that escalated across ranked image-preprocessing modes, collector-number OCR, and a 19,601-entry pHash fallback, logging failed scans to make recognition errors diagnosable.

TECHNICAL SKILLS

Languages: SQL, Python, R, C#

Analytics engineering: DuckDB, dbt, SSAS Tabular, Pandas, NumPy

Platforms and BI: Azure Data Factory, Azure Data Lake, Tableau, Power BI

Engineering: Git, REST APIs, Azure, monitoring, performance optimization

EDUCATION

Virginia Tech | B.S. Statistics