

Mohammad Haider

Full Stack Software Engineer

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SUMMARY

Software engineer with 4 years of experience delivering production systems, analytics infrastructure, internal tools, and decision-support applications. Experienced taking ambiguous requirements through implementation, validation, deployment, performance optimization, and operational support.

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.
- Reduced representative filtering latency by up to 200x and user-visible Excel loading time by approximately 4x, measured through production telemetry and user reports.
- Extended automated financial-value reconciliation between legacy and replacement systems, preserving correctness for users throughout the platform migration and improving data quality.
- Built and maintained Azure-based reporting pipelines supporting business-critical planning and financial close workflows.

Microsoft | Software Engineering Intern

Summers 2017, 2018

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

SELECTED PROJECTS

RareDex | Flask, PostgreSQL, OpenCV

- Built and deployed a mobile-first Flask/Jinja application that identifies cards through ranked OpenCV preprocessing, collector-number OCR, and pHash fallback, then retrieves pricing and persists scans and collections in PostgreSQL.

Indigo Circuit | Flask, DuckDB, dbt

- Built and deployed a Flask/gunicorn and vanilla-JavaScript analytics platform that transforms tournament APIs and scraped results into player rankings, meta analysis, and an interactive Bayesian EV calculator.

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

- Designed and executed a census-tract analysis across approximately 73,000 tracts, producing correlations, state-disparity rankings, scatterplots, and a national choropleth to explain socioeconomic gradients in health outcomes.

TECHNICAL SKILLS

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

Application engineering: Flask, Jinja, JavaScript, PostgreSQL, REST APIs, Git

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

Analytics and interfaces: Pandas, NumPy, Tableau, Power BI

EDUCATION

Virginia Tech | B.S. Statistics