

Mohammad Haider

hi@mhaider.dev

mhaider.dev

linkedin.com/in/haidmoham

github.com/haidmoham

SUMMARY

Data engineer with 3+ years at Microsoft on petabyte-scale ETL and financial reporting infrastructure. Two production apps and a published research project shipped in 2026.

EXPERIENCE

Data Analyst

May 2025 – March 2026

University of Virginia

Charlottesville, VA

- ▶ Reduced Tableau load times 20% via telemetry-driven performance monitoring — faster dashboard access for non-technical staff across all university departments.
- ▶ Delivered analytics projects end-to-end across multiple departments: requirements through pipeline construction, dashboard delivery, and handoff.

Software Engineer — Data & Analytics

July 2021 – July 2024

Microsoft

Redmond, WA

- ▶ Designed ETL pipelines in SQL and MDAX processing hundreds of petabytes of telemetry into structured datasets for financial reporting and operational decisions.
- ▶ Built production dashboards for accounting staff and finance leadership driving financial operations decisions at Microsoft scale.
- ▶ Led SSAS Multidimensional → Tabular migration: 200x faster filtering, 300% processing improvement; added automated incident generation, cutting on-call load.

Software Engineering Intern

Summers 2017 & 2018

Microsoft

Redmond, WA

PROJECTS

Indigo Circuit

May 2026 — ongoing

Production Web App — indigocircuit.app

- ▶ Python → Snowflake ingest pipeline with a dbt transformation layer producing player career stats, archetype win rates, and head-to-head records.
- ▶ Seasonal ranking system on an ATP-style points formula — more accurate than the official CP system, which ignores field size entirely.

Social Vulnerability & Health Outcomes in America

May 2026 — ongoing

Independent Research — Phase 1 of 4 published

- ▶ Joined CDC SVI and PLACES datasets across 73,000+ census tracts covering 313M people; ran correlation analysis between socioeconomic vulnerability and six chronic health outcomes.
- ▶ Surfaced a 1.64x diabetes prevalence gap between high- and low-vulnerability tracts (15.6% vs 9.5%); documented methodology and a phased research agenda for reproducibility.

RareDex

May 2026 — ongoing

Production Web App — rare-dex.com

- ▶ Built and shipped a production card scanner: photograph a Pokémon card on mobile, get the market price back instantly via computer vision. Live and actively used.
- ▶ User correction loop turns every scan error into a labeled training signal — a data flywheel built into the product.

EDUCATION

B.S. Statistics and Data Science

Virginia Tech · 2015 – 2021

TECHNICAL SKILLS

Languages

Python, SQL, R, Java, C, HTML, CSS

Data Engineering

ETL pipeline design, dbt Core, Snowflake, Azure Data Factory, Azure Data Lake, Azure Kusto, Apache Spark, Azure Databricks, SSAS Tabular

Analytics & Visualization

Tableau, Power BI, Pandas, NumPy, Matplotlib, Seaborn, statistical modeling, A/B analysis

Infrastructure & Tools

Git, Azure cloud suite, .NET / ASP.NET, REST APIs, Cloudflare, GitHub Pages

Data Science

Machine learning, regression and classification modeling, NLP, recurrent neural networks, signal processing, experimental design