

# Hummaam Qaasim

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## Summary

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**Senior Analytics Engineer** | SQL · ETL Pipelines · Python · AI-Ready Data

Founding data hire and sole engineer behind a four-source analytics platform. Designed the schema, built and maintained the ETL pipelines, and modeled the data everything downstream depends on, integrating REST APIs, batch files, and live database sync into one governed star schema with 99.5%+ reconciliation defended against legacy production before cutover. Work AI-first day to day, using Claude Code and Copilot as force multipliers, and own the data-quality and structure work that makes a platform something AI can reliably query. Lead a 3-person analytics team and own release standards.

## Technologies

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**Databases & SQL:** PostgreSQL, T-SQL (stored procedures), Spark SQL, schema design, query optimization, Kimball star schema, conformed dimensions

**ETL & Pipelines:** Medallion Architecture (Bronze/Silver/Gold), incremental and CDC pipelines, soft-delete audit tracking, schema evolution, REST API ingestion (paginated, overlap-window, retry/backoff), custom-report APIs, SFTP CSV, live-shortcut sync

**Scripting & Automation:** Python, PySpark, workflow automation, data transformation, reconciliation tooling

**BI & Reporting:** Power BI semantic models, DAX (Calculation Groups, time intelligence), Tabular Editor, Row-Level Security

**AI Dev Tools:** Claude Code, GitHub Copilot, Cursor

**Platforms & DevOps:** Microsoft Fabric (Lakehouse, Warehouse, Data Pipelines, Notebooks, Direct Lake), Azure DevOps, Git PR workflows, CI/CD pipelines

## Experience

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**Analytics Engineer (BI Analyst of record)**, Sunburst Workforce Advisors – Columbia, MD (Remote) May 2024 – present

- **Founding Data Hire & Platform Ownership:** Joined as the company's first data hire. Built the initial reporting environment from scratch, identified its scaling limits, and drove the re-platform onto a modern Medallion architecture. Own the platform end-to-end along with its engineering standards: Git PR review gates, CI/CD promotion, and the team's first analytics engineering runbooks.
- **ETL Pipeline Engineering:** Designed, built, and maintained the ETL pipelines behind a four-source analytics platform. Tuned each to its source's constraints, with overlap-window incremental REST API pulls, soft-delete audit tracking for a vendor API that drops records on hard-delete, and SFTP batch ingestion with file-date deduplication.
- **Schema Design & Data Modeling:** Modeled four operational systems into one Kimball star schema with five fact tables and conformed dimensions, covering millions of timecard, shift, and invoice records across 4+ years. Designed the structure every downstream report and analysis depends on.
- **Python Automation:** Built reusable Python tooling that automates ingestion, transformation, and data-quality handling across every source. Flattens nested API responses, parses inconsistent vendor data, and standardizes pipeline logic so new sources onboard without rewriting code.
- **Data Quality & Reconciliation:** Built a per-source, per-grain reconciliation framework comparing platform output against legacy production on keys and financial totals. Achieved 99.5%+ match across 9,941 orders and 4 years of history before authorizing cutover, with residual variance documented by exception category.
- **Reporting & AI-First Delivery:** Consolidated 30+ disparate reports onto one governed Power BI semantic model with Row-Level Security, a single source of truth for ops and finance. Build AI-first day to day with Claude Code and Copilot under PR-gated review, and own the schema-governance work that keeps data reliable enough for AI to query directly.

**Business Intelligence & Systems Analyst**, Makkah Learning Center – Maryland

Apr 2018 – May 2024

- **Power BI Development:** Designed and deployed the organization's first Power BI reporting suite, automating KPI tracking and reducing weekly reporting cycles by 50%.
- **SQL Data Pipelines:** Built automated data extraction queries using SQL to replace manual reporting processes; performed exploratory data analysis to identify hidden donor engagement patterns.

- **Strategic Growth:** Conducted donor segmentation analysis on historical engagement data; informed targeted outreach that correlated with a 200% lift in subscription conversions over the subsequent campaign cycle.

**Owner / Operator**, Corner Cafe – Maryland

Sept 2019 – May 2021

- Owned full P&L for a brick-and-mortar food service business as sole operator. Built Excel-based financial models for inventory forecasting and budget planning, applied analytics to POS transaction data and Google/Facebook Ads attribution to optimize spend, and ran all hiring, vendor, and operations decisions, growing profitability 30% in six months and customer acquisition 22%.

## Projects

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**Imanic - Gamified Edtech Platform**

Feb 2025 – present

- Solo-built a production SaaS for homeschool families on a PostgreSQL data model and a NestJS/Next.js stack. Designed the schema behind courses, a daily AI-generated quiz engine, an XP/badge economy, a parent-child account model with privileged oversight, and Stripe subscriptions. Built in 11 months AI-first, with Claude Code as the code-generation engine under PR-gated review, while keeping architecture, data-model, and trade-off decisions as my own.

## Education

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**The Open University**, BS in Economics

Sept 2014 – May 2018