MARK TORNGA

Ballwin, MO • mtornga@gmail.com • (616) 634-8165

Data Engineer | SQL • ELT • Azure Fabric • Python

CORE SKILLS

SQL / ELT	T-SQL, SQL Server, Fabric SQL, CTEs, window functions, stored procedures
Azure & Fabric	Data Lake Gen2, Fabric Lakehouse, Synapse Link, Azure SQL, Azure Data Factory patterns
Data Engineering	Pipelines, APIs, schema design, star schemas, data quality, data warehouse/lake concepts
Python	PySpark (Fabric), Cloud Functions, data prep, ML/AI utilities, automation scripts
Tools	Power BI, Alteryx, GitHub, Azure DevOps, BigQuery, Airflow, Docker, Terraform, Notebooks
APIs	REST endpoints, service accounts, ingestion automation

PROFESSIONAL EXPERIENCE

Core & Main | St. Louis, MO

Data Engineer (Hands-on IC work performed within Manager role) | 2023 – 2025

- Engineered end-to-end ELT pipelines across Microsoft Fabric, transforming raw D365 and legacy ERP data into governed Bronze, Silver, and Gold layers.
- Designed SQL-optimized Silver tables using PySpark notebooks with traceable transformation logic and data lineage documentation.
- Reverse-engineered D365 Finance & Operations logic to construct accurate Gold-layer topic tables (InvoiceLine, InventoryOnHand, PurchaseOrderHeader).
- Unified multi-ERP datasets into Master EDW tables enabling cross-company analytics and consistent KPIs across Finance, Operations, and Sales.
- Implemented schema alignment, data quality checks, anomaly detection, and controlled ingestion patterns for audit-ready data.
- Built Power BI datasets and semantic models directly sourced from Fabric Lakehouse tables; achieved 1,400 monthly active users.
- Developed automated usage tracking, cost-per-click reporting, and reliability tooling across Alteryx, ThoughtSpot, and Fabric environments.
- Created Power BI Admin API integrations to pull user activity and compute usage for governance dashboards.

AI & Automation Engineering (Supporting Experience)

- Built Python pipelines using Azure AI Foundry for OCR, classification, and data standardization across large product datasets.
- Implemented a two-pass LLM strategy reducing inference cost by 85% while maintaining accuracy on 100K+ records.
- Created metadata capture and consolidation-analysis utilities for reporting catalog systems.

Slalom Consulting | St. Louis, MO

Senior Consultant, Data Engineering & Analytics | 2018 – 2023

- Delivered SQL, Python, and pipeline orchestration solutions across 18 client engagements in financial services, communications, energy, and healthcare.
- Built ELT workflows integrating Splunk, Workday, Salesforce, Proofpoint, SharePoint, APIs, and operational datasets.
- Developed Alteryx ServerRipper utility later incorporated into Alteryx's official backup tooling.
- Designed and tuned pipelines across Hadoop, Hive, BigQuery, Looker, NiFi, and SQL Server environments.
- Constructed or upgraded multi-node analytics environments (Tableau Server, Alteryx Server) and supporting orchestration tools.
- Partnered with VPs, CISOs, and functional stakeholders to discover business drivers and architect appropriate data solutions.

SELECTED ENGINEERING PROJECTS

Cybersecurity Risk Metrics Dashboard – *$16B Global Insurance Company*

- Developed a cybersecurity program status and performance dashboard using Tableau and Alteryx for the Board of Directors and CISO.
- Conducted workshops with 10 functional groups to brainstorm and design 22 unique risk metrics aligned to NIST Cybersecurity Framework.
- Automated collection of 41 metrics from 16 distinct data sources (Splunk, Workday, Proofpoint, OneTrust, Prisma, etc.).
- Transitioned from manual, email-driven processes to automated pulls from sources of truth with full transparency and drill-down capability.

Insurance Claims Backlog Resolution – *Fortune 50 Health Insurer*

- Designed and implemented SQL solutions using CTEs, temp tables, and window functions to identify, categorize, and resolve millions of dollars in unpaid claims.
- Reduced claims backlog from 23,000 to 8,000 with accelerated path to zero in a 90-day engagement.
- Paired with business rules expert to create an automated, live flowchart showing pending claims divided into 22 types with mass-resolution capability.
- Client feedback: "I don't think we could have ever gotten out from underneath these without this work."

GCP Event-Driven Pipelines – *Promotional Analytics Platform*

- Built event-driven pipelines leveraging Pub/Sub, Cloud Functions, BigQuery, IAM, and Cloud Storage.
- Implemented GitHub Actions CI/CD workflows for automated testing and deployment.
- Designed Data Catalog metadata management and lineage tracking patterns.

Additional Technical Projects

- Airflow DAGs engineered for compute-efficient orchestration; passed Astronomer technical interview.
- Raspberry Pi IoT sensor-network platform using Docker, MySQL, NiFi, Python, and automated ingestion.
- Looker API enhancement submitted and adopted globally by the vendor.
- Hadoop data lake assessment for major telecommunications company, inventorying HDFS/Hive objects and interviewing 100+ data owners.

Unyson Logistics | St. Louis, MO

Manager, Business Intelligence Analyst | 2016 – 2018

- Managed recruitment, training, workload, and mentorship of up to 11 analysts.
- Designed curriculum and trained technical and non-technical audiences in SQL, Excel, Tableau, Alteryx, and SAP BusinessObjects.
- Assisted in implementation and migration to Oracle Transportation Management (OTM) from IBM TM.
- Built cross-docking dashboard used daily without alteration for over five years.

EDUCATION & CERTIFICATIONS

- **B.A., Supply Chain Management** – Michigan State University
- **Data Analytics Certification** – Saint Louis University
- **AWS Solutions Architect – Associate** (2021)
- **Microsoft Azure Fundamentals** (2020)
- **Apache Airflow Fundamentals** – Astronomer (2021)
- **Tableau Certified Associate Consultant** (2020)

COLLEAGUE & CLIENT FEEDBACK

"You absolutely crushed it on the Security Dashboard project. To develop a board-level presentation for a $15B company in two weeks, focused on subject matter you were unfamiliar with, is no small feat. You earned the trust and respect of everyone you worked with while expanding your understanding of a complex situation and organization."
— Senior Delivery Principal @ Slalom

"Mark constantly adapted to a complex and shifting landscape, always meeting the client where they were and steering conversations to actionable outcomes. By the end of the engagement, one of our toughest stakeholders was saying, 'I wish we were able to keep Mark around a little longer.' We watched the team's backlog shrink from 23,000 active tickets all the way down to 8,000. The client said, 'I don't think we could have ever gotten out from underneath these without this work.'"
— Senior Consultant Lead @ Slalom

"Mark is a 'true professional'—responsible, a self-starter, and an expert in his field. He is calm and confident when asked questions and presents material naturally and with ease. His ability to answer questions made him a favorite of our most inquisitive client employees. I am going to miss the humor and intellect that he brought to our team."
— Solution Owner @ Slalom

"Mark shows rare poise in tough situations. During late-night deployments, something went wrong and as frustration grew, Mark was always a voice of calm. His composure under pressure translated into client confidence in Slalom's work. We delivered better because of Mark."
— Senior Delivery Principal @ Slalom

"One of the most positive experiences I've had at Slalom. I'm comfortable saying there is not a problem you could put in front of Mark that he couldn't figure out. He learned Ansible in the course of delivering on a SOW which we sold based on our ability to use Ansible! If I were putting together a team for a D&A; project, there's no question I'd want it to include Mark."
— Senior Architect @ Slalom

"Mark and his team have successfully delivered six AI projects, becoming early adopters and educators in the field. His technical acumen and leadership have been instrumental in our Power BI rollout."
— Vice President of Finance @ Core & Main

"Mark quickly became a trusted leader and partner. His strong technical skills, strategic mindset, and ability to learn systems rapidly enabled immediate impact. He delivers at a high level with little guidance."
— Vice President of Finance @ Core & Main

"Mark's ability to take on unfamiliar technologies—NiFi, Looker APIs, Swagger, security protocols—and become productive almost immediately is remarkable. His curiosity and adaptability set him apart."
— Lead Engineer @ Mastercard

"Mark is someone who puts people first. He goes out of his way to help teammates grow technically and professionally, and does so with kindness, humor, and humility."
— Senior Delivery Principal @ Slalom

"Feedback from the VP, CISO, and IT Leadership during our dashboard demo: 'I think this is awesome.' 'Impressive.' 'I'm blown away.' 'I could see this going in the board deck.' 'This is really impressive.'"
— VP, CISO & IT Leadership @ RGA