

MARK TORNGA

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SUMMARY

Analytics engineer and AI practitioner with 8+ years delivering enterprise data products, AI/ML solutions, and scalable analytics platforms. Combines deep SQL, Python, and cloud engineering skills with a track record of translating ambiguous business problems into production systems - from Fabric lakehouses and governed semantic models to LLM-powered automation that generated \$1.5M in revenue at less than \$5 in AI cost. Known for stakeholder trust, rapid technology adoption, and measurable business impact.

CORE SKILLS

Analytics Engineering

SQL (T-SQL, SparkSQL), PySpark, dbt, data modeling, star schema, semantic layers, KPI governance

BI & Visualization

Power BI, Tableau, Looker, executive dashboards, adoption measurement, data storytelling

AI / ML

Azure AI Foundry, OpenAI, LLM orchestration, prompt engineering, PyTorch, YOLO, computer vision

Data Platforms

Fabric Lakehouse, Synapse Link, BigQuery, Snowflake, Hadoop/Hive, NiFi, REST APIs, metadata mgmt

Cloud & Infrastructure

Microsoft Fabric, Azure, GCP, AWS, Docker, Terraform, Airflow, GitHub Actions, CI/CD

Delivery & Leadership

Agile/Scrum, Azure DevOps, stakeholder alignment, requirements gathering, cross-functional collaboration

EXPERIENCE

Core & Main | St. Louis, MO

Senior Manager, Data Analytics | 2025

Manager, Data Analytics | 2023 - 2025

- Pioneered applied AI at scale: launched six production AI projects using Azure AI Foundry and OpenAI models. Flagship project classified awarded bids into fire-protection leads via a two-pass LLM strategy reducing inference cost by ~85% - generated ~\$1.5M in won deals at less than ~\$5 AI cost; presented to the Board.
- Built end-to-end Fabric lakehouse: transformed 200+ raw D365 F&O system tables through bronze/silver/gold layers using PySpark/SparkSQL with schema governance, validation checks, and lineage documentation.
- Unified multi-ERP data estate: master-layer tables combining D365 and legacy ERP into governed semantic models enabling consistent KPIs across Finance, Ops, Sales, Accounting (~1,400 monthly active Power BI users).
- Automated data enrichment with LLMs: OCR/classification pipelines (Azure Vision + GPT) reduced a 40-hr/week data entry task to 4 hours; generated standardized descriptions for ~87K SKUs saving ~300 hours.
- Operationalized cost analytics: cost-per-click reporting joining Fabric compute, Power BI Admin API activity, and employee roster data to align spend with business value.

Slalom Consulting | St. Louis, MO

Senior Consultant, Data Engineering & Analytics | 2018 - 2023

- Delivered analytics and engineering solutions across 8 clients / 18 engagements in financial services, healthcare, communications, and energy - partnering with VPs, CISOs, and functional leaders.
- Built NIST-aligned cybersecurity analytics for a \$16B global insurer: designed 22 risk metrics, automated collection from 16 data sources (Splunk, Workday, Proofpoint), delivered board-facing Tableau dashboards.
- Reduced insurance claims backlog from ~23,000 to ~8,000 via SQL automation (CTEs, window functions, temp tables) in a 90-day engagement for a Fortune 50 health insurer.
- Built event-driven GCP pipelines (Pub/Sub, Cloud Functions, BigQuery, IAM) with GitHub Actions CI/CD.
- 2020 Slalom-Tableau Rockstar; led Data & Analytics week (420+ attendees); 1st place 2023 Slalom D&A Hackathon (Python, Google Maps API, BigQuery, Tableau).

Abstrakt Cloud Solutions | St. Louis, MO

Tableau Consultant (Contract) | 2023

- Delivered Tableau development and stakeholder advisory across multiple concurrent engagements.

Unyson Logistics | St. Louis, MO

Manager, Business Intelligence Analyst | 2016 - 2018

- Managed up to 11 analysts; designed SQL/Tableau/Alteryx training; built a cross-docking dashboard used daily without alteration for 5+ years.

SELECT AI & ENGINEERING PROJECTS

Fire Protection Lead Classification (Core & Main)

- Used Azure AI Foundry to classify ~1M awarded waterworks bids/year into fire-protection-eligible categories. Two-pass LLM approach (cheap model first, expensive on low-confidence) reduced cost by ~85%. Less than ~\$5 LLM spend, ~\$1.5M in attributed won deals.

Invoice OCR Automation (Core & Main)

- Built bespoke OCR tool (Azure Vision + GPT) to rescue Pricing from 40 hrs/week of manual invoice data entry. Evaluated five Azure/OpenAI OCR approaches across 100 evaluation invoices. Delivered HTML/JS UI with confidence scoring, bounding-box verification, and CSV/Lakehouse export. Reduced task to 4 hours.

Product Description Standardization (Core & Main)

- Used GPT-4 via Azure AI Foundry to generate standardized descriptions for ~87,000 products across 13 elements. Built per-element evaluation datasets and accuracy tracking per prompt iteration. ~300 hours saved.

LLM Interaction Learning Games (Core & Main)

- Built two browser-based LLM training games shipped as single HTML files: (1) prompt-driven data cleanup teaching the 'one prompt scales to millions of rows' concept, and (2) OCR speed comparison pitting a human against an LLM on invoice field extraction. Zero infrastructure required.

Fabric Lakehouse & Multi-ERP Unification (Core & Main)

- Designed bronze/silver/gold architecture in Microsoft Fabric for D365 F&O and legacy ERP data. Reverse-engineered D365 business logic into gold topic tables. Built master-layer tables enabling total-company reporting across all ERPs. ~1,400 monthly active users.

Cybersecurity Risk Metrics (\$16B Global Insurer - Slalom)

- Designed 22 NIST-aligned risk metrics with 10 functional groups; automated 41 metrics from 16 data sources into Alteryx workflows and Tableau dashboards for Board/CISO. Earned immediate executive trust and extensions.

Insurance Claims Backlog Resolution (Fortune 50 - Slalom)

- SQL solutions (CTEs, window functions, temp tables) to categorize and resolve millions in unpaid medical claims. Reduced backlog from ~23,000 to ~8,000 within ~90 days. Built automated live flowchart with mass-resolution.

Computer Vision & Robotics Research (Independent)

- End-to-end CV pipelines (Python, PyTorch, CUDA). Trained YOLO/RT-DETR on custom wildlife datasets for low-light/long-range. Spatial calibration and tracking for robotic navigation. Deployed on GCP GPU instances.

IoT Sensor Network (Independent)

- Raspberry Pi sensor network: Docker, NiFi, MySQL, Flask, Python for automated monitoring and REST API ingestion.

EDUCATION & CERTIFICATIONS

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

REVIEWS OF MARK

"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 and in advancing analytics maturity across the organization."

- 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

"You absolutely crushed it on the RGA 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."

- Senior Delivery Principal, Slalom

"Mark constantly adapted to a complex and shifting client landscape and drove conversations toward meaningful, actionable outcomes. Stakeholders were asking if we could keep him longer - which is the highest compliment."

- Senior Consultant Lead, Slalom

"Mark shows rare poise in tough situations. During late-night deployments he was always the calm, rational voice that reassured the client and guided us to the right solution. His composure under pressure translated directly into client confidence. We delivered better because of Mark."

- Solution Architect, Slalom

"One of the most positive experiences I have had on a project. Mark dives deep, learns fast, and becomes the go-to resource. I'm comfortable saying there is not a problem you could put in front of Mark that he couldn't figure out. If I were assembling a team for a critical data project, I'd want Mark on it."

- Senior Architect, Slalom

"Mark absolutely crushed it during our Alteryx engagement at Cigna. He's an expert in the D&A; space, but equally strong in building trust, spotting new opportunities, and elevating the client relationship."

- Senior Consultant, Slalom

"Mark took a freelance role to support our Tableau practice during a period of higher than expected projects. He made an immediate impact delivering high-quality work and bringing a much-needed level of expertise. I strongly believe Mark will be an incredible asset at any organization."

- VP of Delivery, Abstrakt Cloud Solutions