



# Tom McGeehan

Data Platform Architect

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## Skills

Apache Arrow

API Development

BigQuery

Change Data Capture

Data Migration

Data Warehousing

Google Cloud Platform

Go

Python

Scalability and  
Performance

## Links

[GitHub](#)

[LinkedIn](#)

[Recommendations](#)

Data Platform Architect with 18+ years of expertise in cloud-native and multi-cloud architectures, AI-driven analytics, and large-scale data engineering. Proven leader in enterprise data modernization, enabling high-availability (99.99% uptime) and optimizing real-time decision-making with ML-powered insights. Holds multiple patents in predictive analytics and data processing, driving innovation at scale.

## Employment history

### Google Cloud Data Architect, 66degrees

Dec 2022 - Sep 2023

Chicago, IL, United States

- Optimized cloud migrations for Google, boosting scalability and performance.
- Designed API-driven migration factory, reducing downtime in database transitions.
- Implemented real-time CDC solution, ensuring seamless data replication across clouds.
- Modernized content delivery systems, enhancing responsiveness and reliability.

### Cloud Data Architect, Panera Bread

2021 - 2022

Saint Louis, MO, United States

- Developed Panera's Cloud Data Lake on GCP, enhancing data integration and scalability.
- Led Vertex AI deployment, integrating Kubeflow and BQML for machine learning advancement.
- Implemented real-time models, accelerating decision-making and improving accuracy.
- Optimized data pipelines, reducing latency by 20% and boosting platform efficiency.

### Associate VP, Data Architect, Wells Fargo

2015 - 2021

Saint Louis, MO, United States

- Consolidated DB2 data warehouse into Oracle, enhancing query speed and cutting complexity.
- Implemented data virtualization for seamless platform access, boosting efficiency.
- Optimized data availability, reducing latency for critical analytics and reporting.
- Developed predictive models, slashing data processing time by 30% for better insights.
- Ensured data integrity and compliance, aligning architecture with business needs.

### Senior Data Warehouse Architect, Bank of America

2011 - 2014

Charlotte, NC, United States

- Led BI platform development, improving data access and reporting efficiency.
- Implemented analytics models, reducing processing time by 30% for better risk assessment.
- Enhanced data governance, ensuring consistent and accurate enterprise-wide reporting.

### Data Warehouse Consultant, Principal Financial

2013 - 2014

Des Moines, IA, United States

- Led data integration as Netezza SME, boosting analytics and data management efficiency.
- Developed PostgreSQL-to-Netezza replication, enhancing performance and reducing latency.
- Migrated web app for improved data visibility and accessibility.
- Optimized workflows, accelerating project delivery by approximately 18% through automation.
- Refined data strategies, achieving 99% accuracy and cutting overhead costs by nearly 28%.

## Employment history

### Data Warehouse Architect, Magellan Health

2012 - 2013

Saint Louis, MO, United States

- Led enterprise data warehouse design, enhancing analytics with IBM Pure Data, Oracle RAC.
- Improved database speed, query efficiency; reduced retrieval time by 30%.
- Implemented robust backup, disaster recovery; ensured high data availability.
- Collaborated with IBM to refine ELT workflows, boosting data ingestion.
- Optimized schemas, indexing; accelerated business insights significantly.

### Senior Data Warehouse Architect, MasterCard

2005 - 2011

Saint Louis, MO, United States

- Led data product development, secured 5 patents, managed lifecycle from design to deployment.
- Established analytics foundations, enabling enterprise-wide data-driven decisions.
- Deployed ML solutions, optimizing fraud detection and enhancing customer insights.
- Managed Merchant Data Warehouse, achieving measurable results in data processing.
- Advanced to Senior Technical Consultant II, expanding strategic technical leadership.

## Education

### Missouri University of Science and Technology

Master of Science in Computer Science

### Southern Illinois University

Bachelor of Science in Information Technology

## Professional Achievements and Contributions

### Patents & Innovations

- Ensemble Merchant Prediction System: Developed a system for predicting merchant behavior, improving targeted marketing efforts.
- Methods and Systems for Implementing Approximate String Matching Within a Relational Database: Enhanced database search functionality by integrating efficient string matching algorithms.
- Systems and Methods for Providing a Behavioral Modification Program: Created a system that leverages data analytics to drive behavior change programs effectively.
- Systems and Methods for Creating Standardized Street Addresses: Developed methods for standardizing street addresses to improve data consistency across databases.
- Systems and Methods for Implementing Platform Independent File Transfers: Innovated on cross-platform file transfer techniques, enhancing compatibility and efficiency.
- Peer Based Behavioral Modification Systems: Designed a system that utilizes peer influence for effective behavior modification, enhancing group-based interventions.

### Certifications

- Google Cloud Certified Data Engineer
- Google Cloud Certified Database Engineer
- Google Cloud Certified Digital Leader
- Google Cloud Certified Engineer
- dbt Fundamentals - Issued by dbt Labs

### Core Values

- **Innovation:** Continuously pushing the boundaries of technology to create solutions that not only meet current needs but also foresee and address future challenges.
- **Leadership:** Building and nurturing teams that are not only technically proficient but also innovative and forward-thinking.
- **Excellence:** Consistently striving to exceed expectations through high-quality work and persistent dedication to improving and evolving in all aspects of technology and leadership.