

Thomas McDermott  
Data Analyst / Data Engineer / Software Developer  
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### Summary

- Data Analyst/Engineer and Software Developer with over 10 years of project experience
- MBA with presentation and reporting skills
- Technical experience includes:
  - Data Engineering; ETL/ETL pipelines, data lakehouses, db and schema creation, data transformations
  - Data Analytics: Queries, derived and synthetic data, advanced analytical tools
  - Reporting/Visualizations: Automation, scheduled and ad-hoc reporting, visualizations
- Technical experience:

• Linux	• Mongo	• Apache Airflow	• db Connections
• AWS	• Neo4j/Neptune	• Python	• API's
• Snowflake	• Splunk	• Pandas	• JSON
• PostgreSQL	• Qlik	• Directory parsing	• Tableau
• Azure	• dbt	• File ingestion	• ChatGPT

### Professional Experience:

#### Data Engineer

Open Technology Solutions, Denver CO

March 2023 – Present

Senior Python Developer, Snowflake Project:

- Work in conjunction with PMO and Business Stakeholders to develop reporting and analytics capabilities by moving data from on-premises Oracle-based servers to Snowflake instances
  - Cards Data Project: Ingest and process flat text files from Fiserv using Python, load to Snowflake
  - Member CRM Project: Create API polling service using Python, load audit/history data to Snowflake
  - Qlik Alerting: Create API polling service for non-recoverable errors, integrate with PagerDuty
  - dbt Alerting: Create webhook listener for non-recoverable errors, integrate with PagerDuty

#### Data Analyst

Charter Communications (Spectrum), Denver CO

December 2022 – February 2023 (Contract - Hybrid)

Senior Analyst, Reporting and Automation Team:

- Work with wifi modem/router testing team to develop a suite of automated reports
  - Vendor Data Normalization Project: Parse directory structure on local servers, normalize json data across vendor/device/test type using Python/Pandas, load csv results to Amazon S3.
  - PySpark/Mongo Project: Develop POC for storing records as json/bson using PySpark for rapid retrieval
  - Visualizations Project: Work with stakeholders to develop automated reports and dashboards using Tableau

#### Data Analyst / Data Engineer

Nike, Portland OR

April 2022 – November 2022 (Contract - Remote)

Lead Analyst, Data Services Team:

- Work with stakeholder groups to transform raw product data into curated data objects
  - Use Linux command-line tools including ssh and scp to securely access AWS Virtual Machines (EC2 Instances)
  - Download raw data from application servers
  - Use SQL in conjunction with Python/Pandas to create sample data sets and json objects, capture source to target mapping/transformation rules
  - Turn over to API team for production integrations

- Work with product owner to reverse engineer and document existing data pipelines:
  - Create algorithms to identify source to target mappings based on naming conventions
  - Validate results using data element value comparisons
  - Identify logical errors for remediation by the offshore development team

#### Data Analyst / Senior Engineer

Guardian Insurance / Reed Group, Westminster CO

June 2019 – March 2022 (FTE – On-Site/Remote)

#### IT Metrics Program Lead:

- Engage organizational stakeholders to build a new customer-focused data analytics reporting suite:
  - Access APIs for Service Now, JIRA, TFS, and Splunk to download raw operational data
  - Use Python/Pandas/Excel to normalize data, generate performance metrics, and perform analysis
  - Maintain a local database using Python/SQLAlchemy/SQLite
  - Automate and publish reports using Tableau, SharePoint, PowerPoint, and Excel
- Accomplishments:
  - Developed normalized customer scorecard combining JIRA feature delivery data, ServiceNow defect data, and TFS defect resolution data across three different product lines
  - Developed demand/capacity management model for new customer implementations and feature requests
  - Automated compliance reporting for performance guarantees
  - Published C-Level weekly and monthly IT operations reports

#### Systems Analyst

Transamerica, Denver CO

September 2018 – June 2019 (Contract)

- Support development of new advisor and customer web portals as part of digital transformation strategy
  - Create data-flow source to target mappings for existing portals, capture transformation logic
  - Create development db / test layer in PostgreSQL
  - Implement logic / test and validate results
  - Provide results to API team for microservice implementation

#### Product Manager

University of Colorado Office of Data Analytics, Boulder, CO

February 2018 – September 2018 (Contract)

- Help develop data lake and analytics platform product vision, features, and system integrations. Develop and groom the product backlog
  - Planned and supervised the execution of a successful initial production deployment, including a new UI and accompanying features supporting 3 business/product reporting lines
  - Worked with admissions team to develop BI/demographic profiles in support of student success

#### Technical Project Manager

Charles Schwab Central Project Management Office, Denver CO

July 2015 – February 2018 (Contract)

- Trading Infrastructure Program, Advanced Credit and Risk Application, Personal Trust Services
  - Tested/validated trading rules engine following migration from mainframe to distributed environment and integration of options trading capabilities
  - Helped improve application performance by re-threading trade validation logic (ACAR)
  - Performed technical analysis for integration of automated trading platform and cashiering functions in support of new Personal Trust Services product

#### Education / Certifications

- MBA, MIS/Finance, Auburn University, May 2016
- BA, BS, University of Colorado, May 1990
- Project Management Professional (PMP), Certified Scrum Master (CSM)