Taylor Dickson

SENIOR DATA ENGINEER · ENTERPRISE SOLUTIONS & LEADERSHIP

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Summary

Senior Data Engineer with 7+ years building scalable data pipelines and leading cross-functional teams in highly regulated government environments. Experienced managing sensitive data with security clearance, delivering enterprise solutions that drive multi-million dollar decisions affecting thousands of users. Proven expertise in Python, SQL, Azure cloud infrastructure, DBT transformations, and modern data stack tools, with demonstrated success mentoring junior engineers and maintaining strict data governance standards in complex system migrations.

Skills

Data Engineering	Python, SQL, DBT, Azure Data Factory, Databricks, ETL/ELT Pipelines, Data Modeling
Leadership & Mentoring	Team Leadership, Junior Engineer Mentoring, Project Management, Stakeholder Communication, Agile Methodologies
Database Systems	SQL Server, Oracle, Data Architecture, Data Quality & Validation
Cloud & Data Infrastructure	Azure, Data Lakes, Data Warehouses, Linux Administration, Docker
Development & Tools	Git, REST APIs, CI/CD Pipelines, BASH, Powershell

Experience

Data Engineer
Toronto, Canada

ONTARIO PUBLIC SERVICE — MINISTRY OF THE ATTORNEY GENERAL
2024 — Present

- Saved over $300K annually by implementing DBT for unified court data model, modernizing legacy mainframe systems while ensuring regulatory compliance throughout critical 7-year system migration.
- Managed sensitive judicial data with RCMP security clearance, maintaining strict data governance and privacy protection across Ontario's entire court system.
- Designed scalable data warehouse supporting analytical reporting covering 150+ provincial courts that drives multi-million dollar decisions on court operations and resource allocation.
- Built and maintained Azure cloud infrastructure with Databricks and Data Factory, integrating multiple legacy systems into unified platform for seamless data flow and analytics.
- Developed DBT transformations converting complex data models for large-scale processing, ensuring data quality and accessibility for critical business operations.
- Led cross-functional collaboration across multiple teams during $160M+ system migration, implementing agile methodologies to ensure project timeline success.

Data Engineer/Team Lead
Toronto, Canada

ONTARIO PUBLIC SERVICE — TREASURY BOARD SECRETARIAT
2019 — 2024

- Led team of 5 engineers delivering enterprise data solutions for executive decision-making, mentoring junior staff through complex technical challenges and code optimization.
- Automated critical data pipelines supporting multi-million dollar union negotiations, transforming manual processes into real-time dashboards for government leadership.
- Architected scalable Azure cloud infrastructure and implemented CI/CD practices, ensuring reliable system performance and efficient development workflows.
- Established data governance standards and quality processes, conducting regular code reviews and providing technical guidance on data modeling and integration best practices.
- Developed entity resolution tools and advanced analytics using Python, improving data accuracy and enabling junior staff to validate complex data models effectively.

Workforce Analyst
Toronto, Canada

ONTARIO PUBLIC SERVICE — MINISTRY OF GOVERNMENT & CONSUMER SERVICES
2017 — 2019

- Automated generation of 7,000+ executive packages for province-wide project affecting 10,000 employees, eliminating manual processes while ensuring data accuracy and regulatory compliance.
- Built scalable data pipelines and quality validation tools, reducing operational overhead by 70+ hours while maintaining high standards for critical government operations.
- Ensured data integrity across multiple legacy systems through systematic quality checks and process improvements.