Taylor Dickson

Data Engineer · Cloud Infrastructure & Analytics

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Summary

Senior Data Engineer with 7+ years building scalable data pipelines, leading cross-functional teams to deliver measurable business impact through modern cloud infrastructure and data solutions that drive multi-million dollar decisions affecting thousands of users. Experienced in Python, SQL, dimensional modeling, DBT transformations, and modern data stack tools, while maintaining data integrity and enabling data-driven decision making across organizations.

Skills

Data Engineering	Python, DBT, SQL, Azure Data Factory, Databricks, ETL/ELT Pipelines
Cloud & Infrastructure	Azure, Linux Administration, Docker, Shell Scripting (BASH), Networking
Development	Git, Python, Django, Flask, Go Lang, JavaScript, REST APIs
Frontend	Vue, HTML, CSS, JavaScript
Leadership	Team Management, Project Management, Stakeholder Communication, Agile Methodologies

Experience

Data Engineer

Toronto, Canada

Ontario Public Service — Ministry of the Attorney General *2024 — Present*

- Saved over $300K annually by implementing Data Build Tool (DBT) for our unified court model, bringing modern practices to handle legacy mainframe court data, eliminating the need for IBM Cognos licensing across 4 teams while creating a maintainable solution for the 7-year system migration.
- Managed sensitive judicial data across Ontario's entire court system with RCMP security clearance, maintaining strict compliance throughout the critical 7-year migration process.
- Designed data warehouse supporting reporting across 150+ provincial courts, enabling executive and public reporting on case flow that directly informs multi-million dollar investments in court locations, judicial staffing, and child welfare services.
- Managed Azure cloud infrastructure, including Databricks and Azure Data Factory (ADF) processing environments, utilizing command-line expertise to troubleshoot and optimize configuration, diagnostics, and monitoring.
- Developing DBT transformations that convert anchor-modelled data into dimensional models, utilizing Spark for large dataset processing. Ensuring analysts stay connected to critical court metrics throughout the migration.
- Established git workflows for our small team using feature branches and conventional commits, improving code organization and collaboration on data models and documentation.
- Implemented agile methodologies in our team, allowing for better coordination across multiple teams, ensuring timelines during a $160M+ court system migration project.

Data Engineer/Team Lead

Toronto, Canada

Ontario Public Service — Treasury Board Secretariat *2019 — 2024*

- Automated critical union negotiation data pipeline influencing multi-million dollar contracts affecting tens of thousands of provincial employees, transforming manual processes into real-time PowerBI dashboards for executive decision-making.
- Led team of 5 to deliver enterprise data solutions supporting executive decision-making across Treasury Board operations, improving data accessibility for hundreds of government analysts, enabling data-driven policy decisions and multimillion dollar union negotiations.
- Architected and deployed cloud infrastructure on Azure, configuring Linux servers and network environments to support scalable data processing and ensure reliable system performance.
- Implemented CI/CD practices with GitHub for version control, managing pull requests and repositories in an Agile environment to improve collaboration and development workflow efficiency.
- Conducted regular code reviews and provided technical guidance on data modelling, integration, and pipeline optimization to maintain high-quality, maintainable code.
- Developed entity resolution tools using RESTful APIs that enabled junior staff and co-op students to validate complex data models, reducing operational costs while maintaining data quality standards.
- Tackled complex name entity recognition challenges using Levenshtein distances and NLTK library in Python, improving data accuracy and processing efficiency for large datasets.

Workforce Analyst

Toronto, Canada

Ontario Public Service — Ministry of Government & Consumer Services *2017 — 2019*

- Automated generation of 7,000+ executive level employee reclassification packages for a province-wide job classification project affecting 10,000 employees, saving dozens of staff weeks of manual work while ensuring consistent delivery of salary, duty, and title changes.
- Managed critical data pipeline for union-negotiated job reclassification deadline, ensuring accurate and timely delivery of employee notifications and condensed executive reports across government ministries.
- Built automated job description comparison tools for classification teams, enabling quick identification of similar roles across hundreds of position descriptions and reducing duplicate classifications, while saving over 70 hours of manual work.
- Ensured data integrity across multiple systems through regular quality checks and recommended enhancements to improve overall data reliability.