AARON LI

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WORK EXPERIENCE

Senior Data Engineer   Apr. 2025 – Present
Sun Life   *Waterloo, ON*

- Own and scale **4** data pipelines for Finance CoE using Python and Spark on AWS, automating CI/CD with Terraform and Jenkins, delivering insights to Tableau dashboards used by **10+** finance teams, including executive leadership
- Redesign data models and built a universal monitoring framework, improving reliability across production pipelines, cutting incident response time by **50%**, and reducing compute costs by **30%**
- Researched and introduced Apache Iceberg and expanding change data capture (CDC) adoption, driving greater capabilities in lineage visibility and analytical flexibility across enterprise datasets

Data Engineer   July 2023 – Mar. 2025
Bell   *Toronto, ON*

- Developed **3** Spark-based ETL pipelines orchestrated with Airflow, optimizing data architecture to reduce compute time by **92%** and saving **$220K** annually while processing **500M+** daily rows from MSSQL and Oracle to BigQuery
- Replatformed **80+** datasets and refactored **70+** legacy scripts to GCP using Python and SQL, reducing storage by **2.5 TB** and improving maintainability and query speed
- Reduced data transfer times by **90%** through modular redesign of 25+ scripts, coordinating cross-functional development across **4** data teams to standardize and optimize data exchange between Teradata/SAS and GCP

Software Engineering Intern   May 2021 – Aug. 2022
Veoneer   *Markham, ON*

- Developed **near real-time** executive Power BI dashboards, reducing data refresh time by **87.5%**, by implementing end-to-end data pipelines with Python, SQL, and APIs, and optimizing data flow and architecture
- Designed **5** automated software systems, reducing cycle time across **11** assembly lines by **65%**, using Python, C#, APIs, and PLCs

EDUCATION

Master of Engineering, Data Analytics and Machine Learning   Sept. 2025 - Present
University of Toronto   *Toronto, ON*

Bachelor of Engineering, Mechatronics Engineering   Sept. 2018 – June 2023
McMaster University   *Hamilton, ON*

- Honours: *Summa cum laude* (cGPA: 3.74/4.00)

PROFESSIONAL CERTIFICATIONS

Amazon Web Services (AWS) Certified Data Engineer - Associate   Aug. 2024 – Aug. 2027
Google Cloud (GCP) Professional Data Engineer   July 2024 – July 2026

PROFESSIONAL ACTIVITIES

Machine Learning Research Assistant   Apr. 2024 – Apr. 2025
McMaster University   *Hamilton, ON*

- Increased scheduling efficiency for high-performance systems, conducting literature reviews, analyzing **11M+** rows from Parquet files, and developing neural networks with Python, pandas, scikit-learn, and TensorFlow

TECHNICAL SKILLS

Languages & Frameworks:	Python, SQL, MSSQL, PostgreSQL, Oracle, R, Matlab, C/C#, Bash, PowerShell
Cloud & Big Data Platforms:	AWS (Glue, Lambda, S3, EC2), GCP (BigQuery, Dataproc), Spark, Hadoop, Trino
Data Modeling & Orchestration:	Schema Design, OLAP, Data Warehousing, dbt, Airflow, Terraform, Jenkins
Visualization & Monitoring:	Tableau, Power BI, Looker, Data Lineage, Monitoring & Alerting Frameworks
DevOps & Infrastructure:	Git, Bitbucket, Jira, Confluence