

AARON LI

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TECHNICAL SKILLS

Languages & Tools: Python, SQL, HTML, CSS, JS, C/C#, Shell Scripting, Linux, MS-SQL, MySQL, PostgreSQL, Git, Jira
Cloud & Data Platforms: Google Cloud Platform, Amazon Web Services, dbt, SAS, Snowflake, Databricks
Big Data & Visualization: Spark, Hadoop, Kafka, EMR, Glue, EC2, S3, Dataproc, Airflow, GCS, Power BI, Tableau
Machine Learning & AI: pandas, numpy, scikit-learn, TensorFlow, Vertex AI, SageMaker

WORK EXPERIENCE

- Data Engineer** July 2023 – Present
Bell *Toronto, ON*
- Achieved a **92%** reduction in processing time and annual storage savings of **over 3 TB** by building three end-to-end ETL pipelines on Google Cloud Platform with Python, Scala, PySpark, BigQuery, and Cloud Composer
 - Improved data transfer by **90%** by migrating **80+** terabyte-scale datasets from on-premises (SAS, HDFS) to cloud (GCP) and re-factoring legacy scripts for sourcing, processing, and transformation
- Computer Science Teaching Assistant** January 2023 – April 2023
McMaster University *Hamilton, ON*
- Delivered complex technical concepts, including computing, databases, OS fundamentals, HTML, CSS, and JavaScript, to non-technical undergraduates through **12** weekly tutorials, slide decks, and office hours
 - Collaborated closely with the professor and students, adapting to evolving needs and delivering tailored support to ensure the success of **20** students
- Software Engineering Intern** May 2021 – August 2022
Veoneer *Markham, ON*
- Automated and optimized the end-to-end data pipeline, reducing data extraction, transformation, and refresh time by **87.5%**, enabling faster, data-driven decision-making for Power BI dashboards used by senior management
 - Optimized operational efficiency by **65%** for 11 assembly lines by implementing five mechatronic applications with Python, C#, custom APIs, PLCs, specialized hardware, improving performance and reducing manual intervention.

PROFESSIONAL CERTIFICATIONS

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

PROFESSIONAL ACTIVITIES

- Machine Learning Research Assistant** April 2024 – Present
McMaster University *Hamilton, ON*
- Improved job-size estimation accuracy by **70%** by developing neural networks in Python, TensorFlow, performing feature analysis with pandas, and applying scheduling policies that enhanced scheduling efficiency by **55%**
- Data Engineering and AI Partnership and Sponsorship Prime** September 2023 – Present
Bell *Toronto, ON*
- Lead mentorship for students from Canadian universities, fostering discussions on data engineering, AI, and career opportunities, as featured in Bell's Canada's Top Employers for Young People (2025) publication

EDUCATION

- Bachelor of Engineering in Mechatronics Engineering** September 2018 – June 2023
McMaster University *Hamilton, ON*
- Honours: *Summa cum laude* (cGPA: 3.74/4.00)

PROJECTS

- safeTO** | Python, Jupyter, AWS Glue, S3 September 2024 – Present
- Creating a data engineering and analytics solution, querying open-source APIs and datasets from Toronto's open data and police portals, analyzing safety factors to increase overall safety and well-being in the city.
- strops** | Python, PostgreSQL, PowerShell, Tableau January 2023 – Present
- Built a dashboard with an automated ETL pipeline (Python, pandas, PostgreSQL) to query, load, and visualize sports stats from open-source APIs, processing over 1,000 records daily and boosting fantasy sports analysis in Tableau.
- Cyclops Ride Assist** | Python, Linux Shell, Git, Raspberry Pi September 2022 – April 2023
- Developed an efficient and cost-effective rearview monitoring system for cyclist safety using Python and a Raspberry Pi, earning the James Dyson National Runner-Up Award, as featured by McMaster University, James Dyson, etc.