

AARON LI

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TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, MSSQL, PostgreSQL, Oracle, R, Matlab, C/C#, Bash, PowerShell
Cloud & Data Science: GCP, AWS, SAS, Teradata, dbt, Snowflake, Databricks, Spark, pandas, Hadoop, Airflow
Analytics & Visualization: Power BI, Tableau, Looker, matplotlib, seaborn

WORK EXPERIENCE

- Data Science Developer** July 2023 – Present
Bell Toronto, ON
- Developed three ETL pipelines on GCP, reducing processing time for data models by **92%**, extracting **500M+** rows daily from MSSQL & Oracle, processing with Python & Spark, and loading to BigQuery via Apache Airflow
 - Refactored **70+** legacy scripts and replatformed **80+** datasets from on-premises data warehouses to GCP, saving over **2.5 TB** of storage annually and lowering on-premises infrastructure costs
 - Created modular software functionalities for **25+** scripts, reducing data transfer times by **90%** between Teradata/SAS and GCP, leading cross-functional code reviews with over **10** data teams
- Computer Science Teaching Assistant** January 2023 – April 2023
McMaster University Hamilton, ON
- Supported **20** non-technical students to excel in assignments and exam by breaking down and explaining complex computing concepts like OS and databases through **12** hands-on, inclusive weekly tutorials
 - Refined course content by incorporating industry-relevant concepts and emerging trends like AI, collaborating with the professor to co-design the curriculum weekly
- Software Engineering Intern** May 2021 – August 2022
Veoneer Markham, ON
- Developed and deployed **real-time** executive Power BI dashboards, reducing data refresh time by **87.5%**, implementing automated end-to-end data pipelines with Python and SQL
 - Designed and launched five automated software systems, reducing cycle time across **11** assembly lines by **65%**, using Python, C#, APIs, and PLCs

PROFESSIONAL CERTIFICATIONS

- Amazon Web Services (AWS) Certified Data Engineer - Associate** August 2024 – August 2027
Google Cloud (GCP) Professional Data Engineer July 2024 – July 2026
Google Cloud (GCP) Cloud Digital Leader July 2023 – July 2026

PROFESSIONAL ACTIVITIES

- Machine Learning Research Assistant** April 2024 – Present
McMaster University Hamilton, ON
- Enhanced scheduling efficiency for high-performance systems by **45%**, conducting literature reviews, analyzing 11M+ rows from Parquet files, and developing neural networks with Python, pandas, scikit-learn, and TensorFlow

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, S3, PostgreSQL, Tableau September 2024 – Present
- Informed strategies for increasing city safety and well-being by analyzing safety factors from open-source APIs and datasets through a predictive analytics solution hosted on AWS and visualized in Tableau
- strops** | Python, PostgreSQL, PowerShell, Tableau January 2023 – Present
- Enhanced fantasy sports analysis by processing over 1,000 daily records from open-source APIs through a Tableau dashboard with an automated ETL pipeline using Python, pandas, and PostgreSQL
- Cyclops Ride Assist** | Python, Linux Shell, Git, Raspberry Pi September 2022 – April 2023
- Awarded the James Dyson National Runner-Up Award and features from McMaster University, James Dyson, and others for developing a cyclist safety system using Python, Shell, and Raspberry Pi, increasing cyclist safety