AARON LI

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TECHNICAL SKILLS

Languages & Tools: SQL, Python, MySQL, PostgreSQL, Git, Jira, Shell Scripting, Linux, C/C#
Cloud & Data Platforms: Google Cloud Platform, Amazon Web Services, dbt, SAS, Snowflake
Big Data & Visualization: Power BI, Tableau, Spark, Hadoop, BigQuery, S3, Apache Airflow

WORK EXPERIENCE

Data Science Developer   July 2023 – Present
Bell   *Toronto, ON*

- Reduced processing time for national TV viewership by **92%** by designing three ETL pipelines on GCP, using Python, Spark, BigQuery, Airflow, and Git
- Decreased on-premises data infrastructure costs by saving **2.5+ TB** of storage **YoY** through migrating **80+** datasets and **70+** legacy scripts to GCP
- Increased development speed by **20%** through leading code reviews and presentations with **10+** cross-functional data, analytics, and product teams

Computer Science Teaching Assistant   January 2023 – April 2023
McMaster University   *Hamilton, ON*

- Enabled **20** non-technical students to succeed in assignments and exams by breaking down computing concepts like OS and databases through **12** hands-on, inclusive weekly tutorials
- Increased student engagement by incorporating AI and other emerging trends into course content through collaboration with the professor and research

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

- Implemented near real-time decision-making for executive Power BI dashboards by reducing refresh time by **87.5%** through automating an end-to-end data pipeline with Python and SQL
- Reduced the cycle time across **11** assembly lines by **65%** by implementing five mechatronic applications with Python, C#, custom APIs, and specialized hardware

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%** by performing feature analysis and developing neural networks with Python, pandas, 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

- Increased cyclist safety by developing a cost-effective rearview monitoring system using Python, Shell, Raspberry Pi, earning the James Dyson National Runner-Up Award and features by McMaster University, James Dyson, etc.