AARON LI

(647) 706-9871 | li.aaron.hs@gmail.com | linkedin.com/in/aaronhsli | aaronli.ca | github.com/aaronhsli

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 metrics by **92%** by designing three ETL pipelines on GCP, using Python, Spark, BigQuery, Airflow, and Git
- Increased scalability and cut costs by freeing up **2.5+ TB** of storage **YoY** and reducing data transfer time by **90%** by migrating **80+** terabyte-scale datasets and refactoring legacy code
- Optimized project delivery timelines by **35%** by leading code reviews and presentations with **1** contractor and **10+** cross-functional data, analytics, and product teams

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

- Guided **20** non-technical students to succeed in assignments and exams by simplifying computing concepts like OS and databases through **12** hands-on, inclusive weekly tutorials
- Increased student engagement by constantly updating course content to clarify concepts and integrate emerging trends, through research and collaboration with the professor

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

- Enabled 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.