

# Irene Zheng . Jarvis Consulting

Data Analyst with 2+ years of experience and a Master's in Statistical Modelling. Skilled at building dashboards, automating reporting workflows, and translating data into business insights that drive strategy. Experienced in SQL, Python, and BI tools such as Looker Studio, Tableau, and Power BI. Adept at coordinating across technical and business teams to streamline analytics delivery and ensure data integrity. Passionate about designing scalable data pipelines, enabling self-service analytics, and applying machine learning and statistical modelling to solve real-world business problems.

## Skills

**Proficient:** SQL (BigQuery, PostgreSQL, MySQL), Python (Pandas, NumPy, Matplotlib), Data Visualization (Looker Studio, Tableau, Power BI), Data Cleaning & Transformation (ETL/ELT), Statistical Modelling and Analytics

**Competent:** R (Statistical Computing and ggplot2), Cloud Platforms (GCP, AWS), Data Warehousing (BigQuery, Snowflake), Git & Version Control (GitHub), Dashboard Design and KPI Reporting

**Familiar:** PySpark (Distributed Data Processing), Docker & CI/CD, Machine Learning (Regression, Clustering), SAS (Statistical Programming), Java, HTML/CSS/JavaScript (Basic Scripting)

## Jarvis Projects

Project source code: [https://github.com/jarviscanada/jarvis\\_data\\_eng\\_IreneZheng.git](https://github.com/jarviscanada/jarvis_data_eng_IreneZheng.git)

**Cluster Monitor** [GitHub]: Implemented a Linux host monitoring solution using Bash and PostgreSQL to collect and visualize system metrics, enabling server capacity analysis and performance reporting.

**SQL Data Analytics** [GitHub]: Designed and optimized relational database schemas, wrote complex SQL queries and joins for data analysis, and developed business-ready reports to support performance tracking and decision-making. Applied normalization, indexing, and aggregation techniques for efficient data retrieval and integrity.

**Springboot App** [GitHub]: Not Started

## Highlighted Projects

**E-commerce Performance Dashboard:** -Designed and developed a full-stack e-commerce performance dashboard using Looker Studio and BigQuery. -Automated SQL pipelines for key KPIs, including conversion rate, revenue per hour, repeat purchase rate, and CLV. -Cutting reporting time by 30% and improving decision speed.

## Professional Experiences

**Data Analyst Consultant (Contractor), Branchy Solution (May 2025 - Jul 2025):** Designed and deployed an end-to-end e-commerce performance dashboard using Looker Studio and BigQuery. Automated SQL pipelines to calculate key marketing and sales KPIs, built time-series, geo, and cohort visualizations, and implemented drill-down filters to improve usability and executive adoption.

**Technical Program Manager Intern, Bytedance (TikTok) (Feb 2023 - Nov 2023):** Led multi-team compliance projects, ensuring TikTok data workflow adherence across ingestion and access layers. Integrated 3,000+ Policy and Security Modules, developed SDLC templates used by 20+ teams, and built documentation and training resources to support enterprise compliance.

**Risk Control Product Manager Intern, Sina Weibo (May 2021 - Aug 2021):** Partnered with engineering and product teams to launch anti-abuse features across Weibo's public comment system. Conducted UAT, wrote product documentation, and delivered demos to stakeholders, reducing moderation inconsistencies and harmful content exposure.

## Education

**Northeastern University (Sept 2022 - May 2025),** Master of Professional Studies, Statistical Modelling - Capstone: Sponsor-driven analytics dashboard/model - Coursework: Data Warehousing & SQL, Machine Learning, Data Engineering

**University of Toronto (Sept 2018 - May 2022),** Honours Bachelor of Science, Statistical Machine Learning and Data Mining - Received UofT Entrance Scholarship of CAD \$7,500 - Graduated with Honours

## Miscellaneous

- Udacity Machine Learning (2019)