Irene Zheng . Jarvis Consulting

Data Analyst with over 2 years of experience and a Master¡¯s in Statistical Modelling. Skilled in transforming data into actionable insights through automation, visualization, and storytelling. Experienced in SQL, Python, and BI tools such as Looker Studio, Tableau, and Power BI. Adept at collaborating with cross-functional teams to streamline analytics workflows and ensure data integrity. Passionate about designing scalable pipelines, enabling self-service analytics, and applying statistical modelling and machine learning to optimize business performance and inform strategic decisions.

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 (AWS, GCP), 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

Cluster Monitor [GitHub]: Implemented a Linux host monitoring solution using Bash and PostgreSQL to collect and visualize system metrics. Automated data collection with cron jobs and developed SQL scripts for capacity analysis and performance reporting.

SQL Data Analytics [GitHub]: Designed normalized database schemas, optimized SQL queries and joins, and created business-ready reports to support decision-making. Applied indexing, aggregation, and normalization techniques for efficiency and data integrity.

Spring Boot App [GitHub]: Developed a RESTful microservice using Spring Boot and Docker to demonstrate modern Java backend development. Implemented CRUD endpoints, layered architecture, and API testing for robust functionality and maintainability.

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 KPIs such as conversion rate, revenue per hour, repeat purchase rate, and customer lifetime value. Reduced manual reporting time by 30% and improved decision-making efficiency through real-time analytics.

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 for key sales and marketing KPIs, built time-series, geo, and cohort analyses, and implemented dynamic filters to enhance usability and executive adoption.

Technical Program Manager Intern, Bytedance (TikTok) (Feb 2023 - Nov 2023): Led cross-functional data compliance initiatives involving 14+ R&D teams. Integrated over 3,000 Policy and Security Modules (PSMs) into the Bytemesh system to enhance audit readiness. Standardized SDLC documentation and delivered training sessions to improve compliance efficiency across teams.

Risk Control Product Manager Intern, Sina Weibo (May 2021 - Aug 2021): Collaborated with engineering and product teams to launch and validate risk control features for Weibo¡¯s public comment system. Conducted UAT testing, created technical documentation, and presented product demos, contributing to a 20% reduction in harmful content.

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

- Academy Accreditation - Databricks Fundamentals
- Google Data Analytics (Coursera)
- AWS Cloud Practitioner ¨C In Progress
- Skiing and outdoor recreation
- Badminton
- Community volunteering