

# Ming Liu

5 Soudan Av, M4S 0B1 – Toronto, Ontario  
+1 (647) 937 9629 • [liu.mingzheng@outlook.com](mailto:liu.mingzheng@outlook.com) • [mingliuuu.vercel.app/en](https://mingliuuu.vercel.app/en)  
[in/mingliuuu](https://www.linkedin.com/in/mingliuuu/) • [IG/MingLIUUU/](https://www.instagram.com/MingLIUUU/)

## Skills

**Technical Skills:** Microsoft Office Suite, Power BI, Tableau, Oracle, SAS, Sharepoint, Looker, Git; Programming skills in Python, SQL, Java, Javascript, C, R, VBA, Selenium, Powershell for data analysis, model development, and automation.

**Project Management:** Proven ability to manage projects effectively, works with key stakeholders, and team members to achieve business objectives, creating a collaborative team environment, resolving conflicts, and motivating colleague.

**Soft Skills and teamwork:** Attention to detail, strong interpersonal skills, verbal and written communication skills with a proven ability to deliver clear insights. Over 5 years of experience in customer service and volunteering patient care.

## Education

**University of Toronto, St. George Campus** Toronto, Ontario  
Honours Bachelor of Science, Dean's List Scholars Sep 2018 – Nov 2023  
Computer Science Major, Bioinformatics and Computational Biology Specialist, and Physiology Major

## Experiences

**Professional**.....

**TD Bank & Protiviti Canada** Toronto, ON  
Bank Credit Analyst (Contract Full-time), Canada Apr 2025 – Dec 2025 (Expected)  
o Conduct data-driven investigations on high-risk transactions flagged by monitoring systems.  
o Perform in-depth customer transaction reviews to identify suspicious activity, ensuring compliance with FINTRAC guidelines and policies, and prepare high-quality case summaries for regulatory filing.  
o Enhance reporting efficiency by integrating **SAS** and **Oracle** based tools, reducing manual review time and resulting process improvement improving case turnaround by 15 %.  
o Design improved internal data pipelines and build **automation tools** using **PowerShell** and **Excel VBA** for workflow to improve efficiency for team of 800+.

**Cox System Biology Lab, University of Toronto** Toronto, ON  
Data Analyst Intern, Canada May 2023 – Aug 2023  
o Engineered **automated R pipelines** to process and analyze **large-scale** genomic datasets for preeclampsia research, enhancing reporting accuracy and workflow efficiency.  
o Applied **graph theory** and **network analysis** to uncover enriched biological pathways, identifying potential genetic subtypes associated with disease progression.  
o Built **Cytoscape automation scripts** integrating with the STRING protein interaction database to construct and analyze large protein–protein interaction networks.  
o Collaborated with interdisciplinary teams to translate research goals into data-driven insights supporting publication-quality outcomes.

**Lin System Neuroscience Lab, University of Toronto** Toronto, ON  
Machine Learning Data Analyst Intern, Canada Sep 2022 – May 2023  
o Designed and implemented **machine learning AI** pipelines in **Python** to analyze behavioral video data, enhancing accuracy and efficiency of pattern recognition in neuroscience experiments.  
o Engineered **real-time** data processing systems to **automate behavioral tracking**, reducing manual analysis time and improving data reliability. Resulted in an improvement in data quality and a 20% faster turnaround in generating clean datasets.  
o Collaborated with researchers to translate experimental objectives into computational models, enabling data-driven insights into brain activity and behavior.

**Fujian Provincial Center for Disease Control and Prevention (FJCDC)** Fuzhou, Fujian  
Data Analyst Intern, China Sep 2021 – Jan 2022  
o Engineered a pandemic transmission forecasting model using **Python** for model development and **SQL** for data retrieval, enabling early detection of outbreak trends and improving public health response efficiency.  
o Applied advanced quantitative techniques, including Gradient Boosting and Random Forest Regression, to predict infection rates and assess intervention effectiveness.  
o Developed interactive dashboards in **Power BI**, visualizing geospatial and temporal trends to support real-time decision-making by health authorities.

**Projects**.....

**Commercial Performance Data Analysis** 2022  
Ridesharing Data Insights, Relational database SQL and Python  
o Built and managed a relational database for a ridesharing service, enabling advanced analysis and data-driven strategy adjustments.