# Thomas Liu

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#### EDUCATION

### University of Waterloo

Waterloo, Ontario

Bachelor of Mathematics - Major in Statistics and Computational Mathematics

Sep. 2022 - Present

## TECHNICAL SKILLS

Languages: Python, SQL, R, C/C++, HTML/CSS, JavaScript, LaTeX, C#, MATLAB, DAX

Frameworks: Numpy, Matplotlib, Pandas, TensorFlow, PyTorch, Scikit-learn, JSON, React.js, ASP.NET,

Developer Tools: Visual Studio, Power BI, Cloudera Machine Learning, Git, Excel, Bash Databse: MySQL, Microsoft AZURE, Cloudera Operational Database, MongoDB, Salesforce

### EXPERIENCE

### **Data Analyst**

Jan. 2025 - Apr. 2025

Lifestyle Home Products

Toronto, ON

- Built dynamic dashboards by integrating **Salesforce** data with **Google Sheets** and **Google Data Studio**, providing real-time insights that improved decision-making for marketing and sales teams
- Developed and optimized APIs to connect **Salesforce** with **Zapier** and **Centah**, automating data transfers and reducing manual data entry by 80%
- Presented analytical findings to senior management and cross-functional teams, translating complex data into actionable insights that enhanced campaign performance and customer targeting strategies

Data Analyst May. 2024 - Aug. 2024

Ontario Lottery and Gaming Corporation

Toronto, ON

- Leveraged Python and libraries such as Numpy, Pandas, Matplotlib to perform post-campaign analysis, achieving a 20% increase in ROI by identifying key audience and optimizing marketing strategies
- Streamlined data access and analysis for business teams by developing Power BI dashboards and SQL queries, reducing data request time by up to 90% and allowing faster, data-driven decision-making
- Enhanced decision-making by developing automated weekly lottery and sports reports using **Python** and **Excel**, providing actionable insights into customer trends for managers and cross-functional teams
- Partnered with Advanced Analytics team to design and implement the North Star Matric, improving customer targeting accuracy by minimum of 10% got promotions and driving enhanced campaign performance

#### Full Stack Developer

Sep. 2023 - Dec. 2023

SparkLease Inc.

Toronto, ON

- Designed and developed the user profile feature in WeChat Mini App using React Native, XML, CSS, and JavaScript, enabling users to edit and manage their posts seamlessly, optimizeing the process speed by 50%
- Developed responsive PC and mobile websites with **ASP.NET**, **CSHTML**, **C#**, and **JavaScript**, improving user navigation efficiency by **30**% through a dynamic filter system and streamlined account management features
- Designed and implemented robust **APIs** using **MVC** architecture, improving data handling efficiency and ensuring a consistent and optimized user experience across platforms
- Built a recommendation algorithm using C# and SQL on Microsoft Azure, increasing data retrieval speed by 30% and increasing recommendation accuracy by 15%, enhancing user engagment and satisfication

#### Projects

#### Stock Forecast | Python

Apr. 2024 - May. 2024

- Developed an LSTM-based neural network to predict stock price trend, achieving an accuracy of 83% and outperforming traditional models by 15%
- Utilized Python libraries such as **Numpy**, **Pandas**, and **TensorFlow** to preprocess and analyze historical stock data, identifying key features and trends for model training

#### Watopoly (Variant of Monopoly) $\mid C++$

Jan. 2024 - Apr. 2024

- Implemented a Monopoly variant in C++ using Object-Oriented Programming principles, incorporating unique gameplay rules, dynamic player interactions, and property management for an engaging user experience
- Applied **OOP** to structure key components such as players, properties, and game board, ensuring modularity and scalability for future feature additions