

YUE (JAMIE) YU

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PROFILE & SKILLS SUMMARY

Mathematics & Statistics student with strong programming (**Python, R, SQL**) and data-driven problem-solving skills. Passionate about financial markets and algorithmic trading, with hands-on experience developing quantitative predictive models and optimizing data workflows. Skilled in statistical modelling and market analysis. Eager to apply analytical expertise to the intersection of finance and technology, including **trading** and **strategies**.

EDUCATION

Honours Bachelor of Science (HBSc), University of Toronto Sep 2021 – Present

- Majoring in **Mathematics & Its Applications Specialist (Probability/Statistics)** and **Economics** minor
 - Relevant Coursework: Time Series Analysis, **Statistical ML I & II** (Cross-listed), **Statistical Computation** (Cross-listed), Methods of Data Analysis I & II, Applied Econometrics, **Game Theory**, Data Visualization
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WORK/PROFESSIONAL EXPERIENCE

Hong Kong Applied Science and Technology Research Institute (ASTRI), Hong Kong

FinTech Future Leader Academy 2024 (Internship) Jun 2024 – Aug 2024

- Selected for a competitive internship from over **3,000** applicants (**3%** acceptance rate)
 - Developed **Python** scripts to **validate, classify, analyze, and visualize Suricata/Snort** rules files, delivering actionable insight that informed strategic decisions for the chief engineer via Matplotlib
 - **Collaborated** with engineering teams to **automate** and optimize scalable **ETL** workflows of JSON files using UNIX tools (**jq, grep, and regex**), enhancing efficiency and reducing manual effort
 - **Containerized** data environments using **Docker**, ensuring reproducible SQL querying and data testing
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PROJECT HIGHLIGHTS

Algorithmic Trading: Computation & Optimization, Course and Independent Project Sep 2024 – Present

- Developed **ML-driven models** using **Python** with boosting/ensemble algorithms, **probabilistic** models (hidden Markov model), and **regularization** techniques to optimize stock price forecasting accuracy
- Engineered ML pipelines, including data collection, cleaning, feature engineering, **hyperparameter tuning**, and **model iteration tracking** via Git, applying these skills in the [QRT Data Challenge](#)
- Researched and integrated economic and volatility indicators (TNX and VIX Index) to capture market trends and validated forecasting models on the stock simulator, achieving a **7.5% ROI** over **2** months

FIFA Video Games: Regression and Time Series Analysis, Personal Project Jan 2024 – May 2024

- Utilized **R** for **multi-variable regression** and **time-series analysis (SARIMA)** with **hypothesis testing** and diagnostics to **forecast** player performance
 - Designed database through ERDs and executed advanced **SQL** queries to clean and manipulate the datasets, ensuring **data integrity**
 - Created engaging visualizations in R (ggplot2) and Tableau to communicate player rating trends, achieving **350+ views** and **18+ forks** on **Kaggle**
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ADDITIONAL EXPERIENCE

E-mentor, University of Toronto, Toronto, ON

Jun 2022 – Sep 2022

- Facilitated workshops and crafted newsletters via **MailChimp** to guide and mentor **30+** first-year students
 - Leveraged statistics (open rate, engagement) to craft targeted content, increasing student interaction by **30%**
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TECHINICAL SKILLS

Programming Languages/Tools: Python (Pandas, NumPy, scikit-learn, PyTorch), SQL, Tableau, Git, Docker, Excel