

TAO (TONY) JIN

Ithaca, NY | 551-405-1324 | jtonyking@hotmail.com

EDUCATION

Cornell University

Master of Engineering in Systems Engineering

Ithaca, NY

Sep. 2025 – Present

- **Relevant Coursework:** Data Analytics, Foundation of Systems Engineering, Optimization, Modeling.

University of British Columbia

Bachelor of Science: Major in Mathematics

Vancouver, BC

Sep. 2021 – June 2025

- **Relevant Coursework:** Stochastic Calculus, Time Series Analysis, Statistical Learning, Linear Programming, Inference, Algorithms & Data Structures, Software Construction, Relational Databases.

PROFESSIONAL EXPERIENCE

Grow Investment Group

Institutional Sales Department Intern

Shanghai, China

May 2024 – Aug. 2024

- Spearheaded in-depth market research to identify investment trends; presented strategic findings to senior analysts, directly supporting decision-making processes for institutional clients.
- Collaborated with cross-functional teams to conduct due diligence; engineered Python-based API tools to automate data entry from cross-referencing databases, improving workflow efficiency.
- Compiled a comprehensive slide deck analyzing the convertible bond market downturn by incorporating macroeconomic indicators (rates, sentiment); facilitated investor confidence, reducing selloffs by **9%**.
- Designed technical marketing materials for a new convertible bond product launch; educated sales teams on key features, contributing to a **4% increase** in inquiries and **12% boost** in conversion rates.

Sinolink Securities Co., Ltd.

Investment Banking Intern

Shanghai, China

June 2023 – Aug. 2023

- Advised corporate clients (market cap $\approx \$7.7M$ USD) during pre-IPO stages by performing financial due diligence, analyzing cash flow statements, and rectifying critical discrepancies.
- Refined data collection methodologies for senior analysts, streamlining reporting processes and enhancing operational efficiency by **8%**.
- Analyzed portfolio performance by calculating key metrics (Sharpe, Sortino, Beta, Volatility); visualized metrics using time-series plots to track trends against benchmarks.
- Performed systematic risk evaluation and correlation analysis, presenting findings in comprehensive risk management reports to stakeholders.

PROJECT EXPERIENCE

Dual-Portal Food Delivery Management System | SQL, Database Design, Node.js

Sept. 2024 – Dec. 2024

- Developed a dual-portal web application for managing food delivery operations; designed and normalized a relational database schema in **Oracle SQL** to ensure data integrity.
- Implemented **Node.js** to handle backend database operations, ensuring real-time synchronization between the user interface and the backend server.
- Designed responsive front-end interfaces using HTML, CSS, and JavaScript, incorporating dynamic tables and forms for real-time order updates.

Time Series Modeling of Working Hours in Canada | R, SARIMA, Holt-Winters

Jan. 2024 – Apr. 2024

- Implemented SARIMA modeling to predict monthly average working hours across Canadian industries; optimized parameters via **Akaike Information Criterion (AIC)**.
- Applied **Holt-Winters** exponential smoothing to capture seasonal variations, ensuring robust prediction capabilities across varying time scales.
- Visualized forecast results with 95% prediction intervals to assist stakeholders in labor resource allocation planning.

ADDITIONAL INFORMATION

Technical Skills: Python, R, Tableau, SQL, C++, JavaScript, LaTeX, MATLAB, HTML/CSS

Languages: Chinese (Native), English (Professional Proficiency), Japanese (Basic)