LAURENCE JIN

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EDUCATION

CARNEGIE MELLON UNIVERSITY, TEPPER SCHOOL OF BUSINESS New York, NY
Master of Science in Computational Finance - MSCF **GRE Quant: 170 / 170** 12/25
- Upcoming Coursework: Stochastic Calculus, Machine Learning, Financial Computing (Python, C++) & Optimization, Simulation Methods for Option Pricing

THE CHINESE UNIVERSITY OF HONG KONG Shatin, Hong Kong
B.Sc. in Quantitative Finance and Risk Management Science **First Class Honors** 07/24
- Cumulative GPA: 3.66 / 4.00; Major GPA: 3.73 / 4.00 (Minor in Statistics)
- Relevant Coursework: Stochastic Modelling & Simulations, Stochastic Processes, Statistical Computing & Inference, Time Series, Advanced Derivatives, Data Structures & Algorithms, Database Systems, Deep Learning
- Honors and Awards: Department of Statistics Scholarships (top 2 in RMSC major), Dean's List, Master's List

MCGILL UNIVERSITY Montreal, Quebec
Semester Exchange Student, Faculty of Science **Term GPA: 4.00 / 4.00** 05/23
- Relevant Coursework: Matrix Numerical Analysis, Statistical Learning, Ordinary Differential Equations

EXPERIENCE

DYMON ASIA CAPITAL (HK) LTD. (Leading hedge fund in Asia with US$5.7 billion AUM) Central, Hong Kong
Quantitative Research Intern, MSIF-Portfolio Management Department 08/23 - 12/23
- Expedited data acquisition and validation processes from financial vendors, including Bloomberg, MSCI, FactSet, etc.
- Designed efficient SQL database schemas and optimized query performance to ensure seamless data retrieval
- Developed web scraping tools (Selenium) to automate data extraction; facilitated data accuracy and consistency

PRUDENTIAL HOLDINGS LTD. (Global leading insurance and asset management company) Central, Hong Kong
Actuarial Intern, Asset / Liability Management (Group Investment) 05/23 - 08/23
- Generated stochastic simulation sets under risk-neutral scenarios; deeply involved in data collection, parameters refinement and testing to meet calibration targets
- Assisted in research and further development of modelling process, enhanced daily workflow with Python automation
- Performed market-consistent valuations for multiple countries and real-world projections based on simulation sets

CHINA GALAXY SECURITIES CO., LTD. (Top-tier investment bank in China) Beijing, China
Data Analyst Intern, Securities Finance Department 06/22 - 08/22
- Calculated P&L, VaR and sensitivities of several portfolios, implemented P&L attribution analysis and backtesting
- Tracked domestic financial market movements and regulatory environment, analyzed credit market data using Python

MINSHENG EQUITY INVESTMENT FUND MANAGEMENT CO., LTD. Beijing, China
Industry Research Intern, Investment Management Department 05/21 - 08/21
- Conducted research and analysis on target client profiles and relevant industry (photovoltaic, autonomous vehicle)
- Appraised comparable listed companies valuation (EV/EBITDA, P/E, DCF) and comparable transactions valuation

PROJECTS

QUANTITATIVE PORTFOLIO CONSTRUCTION STRATEGY 🌐 01/24 - 04/24
- Integrated Bayesian shrinkage, Black-Litterman model and multi-factor models in re-evaluating posterior predictive moments of stock returns, reduced estimation errors by optimizing balance between bias and variance
- Backtested portfolio performance via Backtrader and QuantStats (Python packages), achieved a Sortino ratio of 1.1 and a CAGR of 15.89% over a four-year period

STRUCTURED PRODUCTS PRICING (Equity-Linked Note) 🌐 09/23 - 12/23
- Derived and interpolated the Black-Scholes implied volatility surfaces with real option quotes from Bloomberg, implemented Dupire's equation and Gatheral's method to calibrate local volatility surfaces for simulation purposes
- Developed, restructured and optimized Python algorithms for numerical methods in matrix computations and differentiation, decreased program's calculation time by at least 50%

CUSELL (Online second-hand trading platform for CUHK students) 🌐 01/22 - 04/22
- Scripted in HTML / CSS / JavaScript; designed and developed ornamented, user-friendly UI & web pages
- Built connection and integrated front-end user-facing interfaces with back-end web server framework (Python Django)

ADDITIONAL INFORMATION

- **Software:** Experienced with Visual Studio Code, GitHub, Bloomberg, Wind, Microsoft Azure, SSMS
- **Programming:** Python (OOP, data analysis & visualization), R, MATLAB, Excel VBA, Java, C, C++, Linux Command
- **Database Management:** Knowledgeable in DBMS (SQL Server, MySQL, Microsoft Access, etc.)