John Wang

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EDUCATION

University of Chicago   Chicago, IL, United States
B.S in Mathematics & B.A in Economics   *9/2023 – 5/2026*
Cumulative GPA: 3.92 / 4.00
Coursework: Theory of ODEs, Mathematical Probability (Graduate), Statistical Theory and Methods (Graduate),
            Discrete Mathematics; Analysis in Rn I, II, III; Economic Analysis I, II, III; Abstract Linear Algebra

PROFESSIONAL EXPERIENCE

Department of Mathematics, University of Chicago   Chicago, IL, United States
Course Assistant   *9/2024- Present*
- Facilitated mathematics tutorials, graded assignments, provided academic support, assisted instructors with course delivery, and addressed student challenges in calculus and analysis.

China International Capital Corporation   Beijing, China
Trader Intern in Equity Derivatives Strategy Group   *6/2024 – 8/2024*
- Developed and executed trading strategies for equities and equity derivatives, implementing risk management through stress testing and hedging techniques to mitigate market exposure and optimize portfolio performance.
- Designed a dynamic stock index with automated adjustments based on historical trading data using Python, enhancing trading strategy robustness through volatility forecasting models, achieving a 20% improvement in execution speed.
- Structured an alternative to Snowball derivatives using exotic options, modeled pricing with Monte Carlo simulations, and verified viability through backtesting with market data retrieved via SQL queries from an Oracle database.

Deloitte Consulting   Shanghai, China
Consultant Intern   *7/2023 – 9/2023*
- Participated in risk assessment of SAP financial transformation system implementation to ensure smooth integration of future IFRS 17 financial scenarios, enhance data middle platform designs for robust data integration and processing.
- Supported project manager in daily operations and management tasks to enhance project implementation efficiency, resulting in the early completion of the project's first milestone by 2 weeks.
- Developed automated reporting procedures and edited specification manuals for the client's sub-ledger and general ledger posting, improving system usability and contributing to a 20% improvement in client satisfaction scores.

Rotman Commerce Fintech Association, University of Toronto   Toronto, ON, Canada
Director of Research & Development   *10/2022 – 7/2023*
- Established the inaugural R&D department, and directed a team of managers to organize workshops, driving the club's growth to become the largest student organization, increasing membership by 35% within one year.
- Engineered algorithms for Sandbox, a live trading platform featuring market analysis tools, advanced risk management systems, and automated trading strategies using Vue.js and Python, resulting in a 25% improvement in accuracy.

LEADERSHIP & ACTIVITIES

Derivatives Group Quant Trading, University of Chicago   Chicago, IL, United States
Curriculum Development Associate   *9/2023 – Present*
- Designed and implemented comprehensive workshops, featuring detailed modules on the Black-Scholes model, binomial option pricing, Monte Carlo Simulations, interest rate swaps and advanced risk management techniques.

Undergraduate Investment Banking Group, University of Chicago   Chicago, IL, United States
Analyst   *9/2023 – Present*
- Developed key investment banking skills by performing DCF and comparable company analyses, pitching stock ideas, while honing expertise in financial modeling, valuation, and deal simulations.

Intramural Tennis, University of Toronto   Toronto, ON, Canada
Mixed Division I Captain   *9/2022 – 5/2023*
- Led tennis practices and playoff matches and placed 3rd overall in MD1 Tennis for the Fall Season.

Aid In Motion   Toronto, ON, Canada
Founder & President   *9/2018 – 9/2023*
- Gathered 60+ peers to support 30+ autistic children, organized public events with major charity associations, and developed an educational educational-program to enhance their cognitive and language abilities.

S.T Yau Science Award for Economics and Financial Modeling Research
- *Title: Digitalization and Innovation in the Manufacturing Industry—Based on Chinese A-Share Listed Manufacturing Enterprises,*
- Utilized Word2Vec Machine Learning for a digital dictionary and text-mined annual reports, found digitalization boosts innovation, and confirmed robustness across TOBIT, instrument variables, LASSO regression.

SKILLS & INTERESTS

Languages: English, Mandarin, French, Japanese
Technology & Media: C++,Java, MATLAB, Microsoft Office(Excel, PPT, Word), Photoshop, Python, R, SQL,Visual Basic
Interests: Chess, Equestrian, Jazz, Piano, Poker, Table Tennis, Tennis, Trumpet