Kate Ni

EDUCATION

Rotman School of Management & Department of Economics, University of Toronto — Toronto, Ontario
Master of Financial Economics — *Expected June 2026*
- **Award:** MFE Entrance Scholarship ($8,000)
- **Relevant Upcoming Courses:** Economics Courses – Financial Economics, Econometrics, Microeconomics, Macroeconomics; Rotman MBA Courses – Corporate Financing, Options and Futures, Security Analysis and Portfolio Management

Department of Mechanical & Industrial Engineering, University of Toronto — Toronto, Ontario
Bachelor of Applied Science, Major in Industrial Engineering, Double Minor in Business and Artificial Intelligence — *Sep 2018 – Apr 2023*
- **Academics:** 3rd & 4th Year GPA 3.9/4.0; Graduating Rank: 1/112;
- **Awards:** Dean's Merit Award ($10,000); W.S. Wilson Medal; PEY Co-op of the Year Nominee
- **Relevant Courses:** Financial Engineering (A); Algorithms & Numerical Methods (A+); Operations Research III (A+); Statistics (A); Markets & Competitive Strategy (A); Intro to AI (A+); Modelling & Simulation (A); Fundamentals of Accounting & Finance (A)

INDUSTRY CERTIFICATIONS
- Passed CFA Level I — *Jun 2024*
- Bloomberg Certification Program – Bloomberg Market Concepts — *Jan 2022*

PROFESSIONAL EXPERIENCE

Scotiabank Global Banking & Markets — Toronto, Ontario
Senior Analyst Advisory — *Apr 2022 – Present*
- Business analyst and full-stack web developer for trade floor automation projects, focusing on efficiency savings
- Created central repository to track 400+ brokers and 60+ high-risk applications, streamlining S&T internal controls processes
- Developed automated calculation of pre-settlement risk of counterparties for UK trading teams for enhanced risk assessment
- Integrated Excel VBA macros to automate bulk P&L submissions for trading desks, saving time and increasing accuracy
- Proactively pursued project to collaborate with derivatives desk to create a database tracking fixed income notes issuance
- Created Power BI dashboards on team productivity using site traffic and workload data to aid in data-driven insights
- Leadership: Recruited mentored and trained 11 engineering co-ops on data analysis projects

Scotiabank Global Banking & Markets — Toronto, Ontario
Trade Floor Technology Consultant (Professional Experience Year – PEY Co-op) — *May 2021 – Apr 2022*
- Provided responsive technical support to 500+ S&T staff globally in a high-pressure, time-sensitive environment
- Analyzed and coordinated timely vendor demos for Scotiabank North move initiative, advising on key business decisions for the standardized trading set-up and technology equipment orders
- Nominated for PEY Co-op of the Year Award, and promoted to an associate-level full-time position during my co-op term

University of Toronto — Toronto, Ontario
Engineering Education Technology Assistant — *Jun 2020 – Apr 2021*
- Supported 18+ engineering faculty with technical and course design consults
- Redesigned learning modules of core engineering course to complement asynchronous learning of 600+ students annually
- Published 20+ how-to guides and blog posts, and featured in monthly email distributions and on faculty website

TECHNICAL PROJECTS

Trade Floor Automation Tools (Scotiabank) | *C#, JavaScript, HTML, CSS, Bootstrap, jQuery, SQL*
- Email Validator: Cleans DLs using regex and database queries, reducing bounce-backs when sending client emails
- Files Mover: API to move/copy/save a file upon receipt, automating information flow for daily reporting processes
- Task Tracker: In-house productivity tool to assign recurring tasks to individuals or teams, track completion and send reminders

Relevant Machine Learning Projects | *Python – NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib*
- Financial Tweet Classification Model: Developed predictive model for classification and sentiment analysis
- Performance of Green Funds: Trained neural net model to predict fund performance based on ESG attributes
- Korean Apartment Prices: Trained price prediction model based on 34 apartment features like size, amenities, and landmarks

PERSONAL
- **Technical skills**: Excel, Bloomberg Terminal, Python, Java, C, C++, C#, MATLAB, VBA, JavaScript, LaTeX, SQL, Power BI
- **Memberships**: 100 Women in Finance, VersaFi (formerly Women in Capital Markets)
- **Languages**: Fluent in English and Mandarin Chinese, Intermediate in French
- **Interests**: Running, trying new recipes, karaoke singing