Karl Qu, CQF, FRM

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EDUCATION

University of Toronto, Toronto, Canada

May 2018

Master of Arts, Economics

University of Toronto, Toronto, Canada

May 2017

Bachelor of Commerce, Specialization in Finance and Economics, Minor in Statistics

PROFESSIONAL EXPERIENCE

Manager/Credit Officer, GRM Financial Institution, Scotiabank, Toronto, Canada

Oct 2020 - Present

- Perform credit adjudication for investment fund counterparties to facilitate Prime Brokerage, CMF, and FX desks activities
- Ensure the appropriateness of terms and conditions, exposures, margin, termination events, and other covenants for a wide range of facilities including repos, securities borrowing/lending, foreign exchange, and derivatives
- Advise on the risk characteristics of complex deals/trades, and report risk measures and market information to internal and external stakeholders
- Partner with data analytics team, and utilize data mining methods and advanced analytics techniques to identify previously unknown trends, establish optimal onboarding limits, and articulate business insights
- Participate in Trading Floor Risk Management (TFRM) projects to improve counterparty credit risk (CVA) hedging methodology and CMF & XVA collateral monitoring (VaR, Notional, and DV01)

Senior Analyst/Credit Officer, GRM Financial Institution, Scotiabank, Toronto, Canada

Aug 2019 - Oct 2020

- Preformed credit adjudication and comprehensive credit evaluation of counterparties to assess and mitigate any investment, business, or operation risk, and conducted ongoing monitor of the credit quality of the portfolio
- Built analytics tools, such as tableau dashboards and web applications, to provide actionable insights into risk measurements, operational efficiency, and other key portfolio performance metrics
- Prototyped new projects to support risk measurements and data analytics, developed production-level code, and collaborated with IT teams for integration into daily bank processes

Reporting Analyst, GRM Counterparty Credit Risk, Scotiabank, Toronto, Canada

Oct 2018 - Present

- \bullet Implement tools and processes to optimize data delivery and automate reporting workflow, and reduce the time required to prepare reports by 80%
- Identify and analyze reporting requirements, including technical specifications, design considerations, report generation frequency, user audiences, and distribution channels
- Design, develop, implement, and maintain infrastructure and software solutions (dashboards, code, and databases) which form the comprehensive management information system that tracks and reports counterparty credit risk metrics

RESEARCH & VOLUNTEER EXPERIENCE

Research Assistant, Dynamic Optimization & Operations Management Lab, Toronto, Canada

Oct 2020 – Present

- Collaborate with two Ph.D. students at the University of Toronto on projects that specialize in the research of automated trading strategies using reinforcement learning and quantum computing
- Develop codebase of reinforcement learning algorithms, trading platform, and data pipeline framework
- Perform model training, hyper-parameter tuning, backtesting, and paper-trading to evaluate the trading strategies
- Leverage cloud architecture for high-performance computing, data integration, and DevOps solution

SKILLS & CERTIFICATIONS

- FRM, CFA Level III Candidate, Certificate in Quantitative Finance (CQF; Distinction)
- AWS Certified Solution Architect Professional, AWS Certified DevOps Engineer Professional
- AWS Certified Data Analytics Specialty, Google Cloud Professional Data Engineer, MCSE: Data Management and Analytics
- Python, SQL, Bash, Perl, C#, C++, VBA, HTML, CSS, JavaScript, Unix, Docker, Bloomberg, Tableau, Hadoop Ecosystem