

Kemal Kongar

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WORK EXPERIENCE

Citi **Toronto, Ontario**
Software Developer, Equities July 2022 – Present

- Upgraded real-time and historical market data analytics for quantitative trading in cash equities and futures.
- Improved algorithmic trading systems by adding consolidated exchange data for volume profile creation and brokerage commission data for best execution analysis.
- Took ownership of a complex QA environment to ensure the availability of market data statistics and estimated impact calculation services that feed into order routing and execution decisions.
- Advanced the implementation of a kdb+ service that uses security reference data to create historical holdings for Citi clients, gaining experience in ELT pipelines and data engineering.
- Interfaced with vendors such as Refinitiv and FactSet to improve the quality of historical trade and quote data.

Skills: Capital Markets, Quantitative Trading, Big Data Analytics, ELT Pipelines, Java, Python, kdb+/q, Linux

DDMAL Lab **Montreal, Quebec**
Software Developer May 2021 – June 2022

- Developed features for a machine learning project that uses computer vision for text and symbol recognition.
- Led a project redesign that resulted in legacy technologies being phased out, allowing us to more than quadruple the development team without losing task efficiency.
- Co-led a team of 5 developers in an Agile environment with a focus on Python, C++, and JavaScript projects to improve the efficiency of ML models, data processing and network security.
- Gained domain knowledge in onboarding and managing a team through active participation in hiring and strategy meetings. Interviewed tens of candidates and worked with senior developers on project management.

Skills: Machine Learning, Computer Vision, Distributed Systems, Python, C++, SQL, Agile Project Management

EDUCATION

McGill University **Montreal, Quebec**
B.A. Computer Science and Political Science September 2018 – December 2021

- Selected Coursework: Algorithms and Data Structures; Software Design; Data Science; Probability; State Behavior; War and Peace; Quantitative Political Science; Conflict Simulation
- Editor-in-Chief at CRG Review; Associate Editor at the McGill Pre-law Review

CERTIFICATES AND PROGRAMS

Corporate Finance Institute: Financial Modeling & Valuation Analyst

- Selected Coursework: 3 Statement Models; Business Valuation Modelling; Scenario & Sensitivity Analysis; Financial Planning and Analysis; M&A Modelling; Advanced Excel Formulas and Functions; Dashboard & Data Visualization; PowerPoint & Pitchbooks; Professional Ethics.

PROJECTS AND INTERESTS

Quantitative Social Sciences: Worked on a team data science project that analyzed the Eurobarometer to determine causality between national identity and support for European Union integration. R, dplyr, stargazer

Financial Markets: Created a market-sentiment analysis tool that scrapes popular investment forums to determine retail investor behavior. Python, pandas, NumPy, MongoDB, Node.js/React.js

Fintech: Developed a mock brokerage account with stock listings from the NYSE and NASDAQ that allows for the analysis and purchase of securities. Java, Spring Boot, MySQL, Docker, Kubernetes, AWS, Python, Angular.js