

Kemal Kongar

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WORK EXPERIENCE

Citi **Toronto, Ontario**
Software Developer, Electronic Trading *July 2022 – Present*

- Upgraded real-time and historical market data analytics for electronic trading in cash equities and futures.
- Extended kdb+ algorithmic trading systems by adding brokerage commission data and new stock exchanges for volume profile creation.
- Stabilized a complex estimated trade impact service by improving its global market data pipeline, ensuring data flow to order routing and execution algorithms.
- Migrated feed handlers, ticker plants, historical and real-time databases to modern tech stacks using Python and Java, improving security and data throughput. Further contributed to Tibco and Solace migrations.
- Implemented a client insights service that compiles global holdings data for Citi clients across regions.
- Interfaced with vendors such as Refinitiv and FactSet to improve the quality of trade and quote data.

Skills: Electronic Trading, FIX Protocol, Big Data Analytics, ELT Pipelines, Java, Python, kdb+/q, SQL, 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 and refactor 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, improving the efficiency of ML models, data processing and network security.
- Onboarded and managed a team of developers through active participation in hiring and strategy meetings. Interviewed tens of candidates and worked with senior stakeholders 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

CERTIFICATES AND PROGRAMS

CFA Institute: CFA Level 1 Candidate

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