# Kemal Kongar

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## WORK EXPERIENCE

**Citi**                                                                                Toronto, Ontario
**Software Developer**                                                        July 2022 - Present
Institutional Clients Group (ICG) – Equities and Prime Business
- Worked on Java and Python projects with kdb+ integration that provide real-time market data to quantitative analysts, traders, and prime finance customers.
- Implemented upgrades to Spring Boot and q projects after coordinating with product owners and senior developers, gaining domain knowledge regarding the FIX protocol and high-frequency electronic trading.
- Spearheaded process improvements in the cloud and CI/CD realms, gaining deeper understanding of enterprise development, risk & control, and the software lifecycle within equity capital markets.
- Took ownership of simultaneous global deployments, coordinating teams and access in regions ranging from North America to Asia Pacific.

**DDMAL Lab**                                                                      Montreal, Quebec
**RA, Software Developer**                                                  May 2021 - June 2022
- Developed and implemented new features for a Django based workflow software that uses machine learning for optical music recognition and analysis.
- Co-led a team of 5 developers in an Agile environment with a focus on Python and JavaScript development.
- Drastically reduced development and deployment complexity by consolidating repositories and restructuring Docker builds.
- 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.

## EDUCATION

**McGill University**                                             September 2018 - February 2022
**B.A. Computer Science and Political Science**
- Selected Coursework: Algorithms and Data Structures; Operating Systems; Programming Languages; Software Design; Discrete Structures; Data Science; Probability; Quantitative Political Science; Conflict Simulation
- Editor-in-Chief at CRG Review; Associate Editor at the McGill Pre-law Review

## TECHNICAL EXPERIENCE

- **Brokerage Account:** Full stack webapp that simulates an equity trading account. Spring Boot backend with MySQL database, Python data processing and Angular frontend.
- **Internet Stock Picks:** Aggregates market sentiment with a focus on individual investors. Node.js and NGINX backend, React.js frontend with pandas data analysis and NoSQL data management through MongoDB.
- **EU Data Analysis:** Public policy analysis using polling. Data processing, analysis, and visualization in R.

## CERTIFICATES AND PROGRAMS

**Corporate Finance Institute:** Financial Modeling & Valuation Analyst
- 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.

**CFA Institute:** CFA Level 1 Candidate

## LANGUAGES AND TECHNOLOGIES

- Java; Python; C; C++; SQL; kdb+/q; R; Bash/Linux
- Spring Boot; Pandas; NumPy; TensorFlow; MySQL; PostgreSQL
- Docker; Kubernetes; AWS; Jira; git; Continuous Integration