Kemal Kongar

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WORK EXPERIENCE

Citi   Toronto, Ontario
Technology Analyst   July 2022 - Present
- Software developer in cash equity electronic trading. Implemented upgrades to real-time and historic TAQ market data pipelines for low-touch and high-touch trading.
- Worked on Java, Python, and q projects with kdb+ integration that provide big data inputs to financial models within the high-frequency algorithmic trading business.
- Coordinated with quantitative analysts, traders, and product owners to expand the functionality of algorithmic trading models that cover numerous North American exchanges.
- Took ownership of simultaneous global deployments, ensuring the safe operation of projects ranging from order capture to ATS and broker commissions.
- Upgraded systems that interface with data vendors (Reuters Refinitv, NYSE/ICE) and gained deeper understanding of capital order flow in equity markets.

DDMAL Lab   Montreal, Quebec
Software Developer   May 2021 - June 2022
- Developed features for a machine learning workflow project that uses AI 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 and JavaScript projects that improved the efficiency of ML models, network security and data processing.
- Upgraded CI/CD processes that drastically reduced development and deployment complexity by consolidating repositories and restructuring Docker builds.

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