

Jing Cao

176 Regina Ave, North York, Toronto, Canada || +1 647-860-5870 || Janice.caojing@gmail.com

PROFESSIONAL WORK EXPERIENCE

TD Bank, Toronto, Canada

Technology Solutions Rotation Program

Developer Associate (TDS – eFIC Data Engineering)

Jan. 2021 – Jun. 2021

- Produced and maintained summary views for trading activities done in Ion and built a pipeline to make views available to the desk with minimum manual intervention.
- Analyzed trade data and created dashboards using visualization tools, e.g. Tableau, Apache Superset.
- Assisted with Deployment and production releases.

Business System Analyst (TDS – TBSM)

Jun. 2020 – Dec. 2020

- Created rules and testing scenarios in Docstore for TBSM feeds with SparkSQL.
- Managed aggregation feeds and mapped feeds from different databases.

Developer Associate (CBDA – Deposit Account System)

Jan. 2020 – Jun. 2020

- Developed queries in JCL and SAS to collect and analyze deposit account data in Mainframe.
- Managed DAS files and performed analysis for project cycles with Python and Node.js.

Hydro One Inc., Toronto, Canada

Aug. 2017 – Aug. 2018

Transmission Asset Management University Co-op Student

- Defined short and long-term maintenance and replacement strategies for Transmission lines assets.
- Developed scopes of work for condition assessment and preventive maintenance.
- Created and modified the maintenance plans and orders in SAP through Access.
- Scheduled and prioritized more than 10 maintenance programs and projects for transmission assets based on asset condition, cost budget, transmission reliability and field verification.
- Analyzed reliability data from performance database and condition data from Asset Analytics and SAP.
- Prepared for business planning and rate filing for both maintenance and capital drivers.

SKILLS

- **Technical skills:** Python, PySpark, SQL, Java, JavaScript, R, SAS
- **Applications and Tools:** Jupyter, Git, Visual Studio Code, Tableau, Apache Druid, Superset, Mainframe, Jira
- **Financial Instruments:** Fixed Income, Foreign Currencies, Institutional Equity, Derivatives, Hedge Funds

CERTIFICATIONS

- CFA Level I (Dec. 2018) passed on the first attempt (Scored above the 90th percentile)
- CFA level II (Jun. 2019) passed on the first attempt, CFA level III candidate (Nov. 2021)
- FRM Level I (Nov. 2019)

EDUCATION

Bachelor of Applied Science in Engineering Science, University of Toronto

Sept. 2014 – Apr. 2019

- Engineering Mathematics, Statistics and Finance Option
- Dean's Honors List with Major GPA: 3.63/4

RELEVANT ENGINEERING PROJECTS

Project leader, Capstone Project: Portfolio Optimization Advising System (Python)

Sept. 2018 – Dec. 2018

Engineering Science, University of Toronto, Toronto, Canada

- Designed a robot-advisor Investment wizard to analyze and provide portfolio investment decisions.
- Developed a web app with Flask, JavaScript and Bootstrap to provide a framework for user interactions.
- Applied Fama–French 3-factor model and robust MVO to calculate return and variance with selected assets.
- Integrated frontend and backend by storing asset and user data in MongoDB.