

TECHNICAL SKILLS

- **Software Development:** C/C++, Python, SQL, VBA, Bash, Scheme/Racket, Git
- **Data Science:** Jupyter Notebook, R, Spark, MapReduce, Tableau

WORK EXPERIENCE

Undergraduate Research Assistant

University of Waterloo Faculty of Mathematics - Statistics

Waterloo, Ontario

May 2018 – Present

- Enhanced forecasting of securities' movements through application of AR and MA time series models using R

Valuations Consultant

KPMG LLP

Toronto, Ontario

Jan 2018 – Apr 2018; Jan 2017 – Apr 2017

- Constructed a regression model to back the market-based valuation of CPPIB's investment in Antares Capital
- Identified bottlenecks in the data analysis process, reported anomalies and improved the data pipeline
- Led new research project on the potential applications of Blockchain technologies in derivatives trading to executive review; coordinated efforts across multiple deal teams
- Developed the pitch deck that won a new \$71M fairness opinion deal on Canadian World Fund (TSX: CWF)
- Worked closely with clients to ensure product requirements were collected and user feedback was triaged

Senior Analyst

University of Waterloo Student Investment Fund - Healthcare

Waterloo, Ontario

Aug 2017 – Present

- Managed a \$325,000 portfolio of Canadian and U.S. equities alongside 19 selected finance students
- Coached junior on fundamental and quantitative analyses to effectively identify investment opportunities

Business Systems Engineering Intern

Sun Life Financial

Waterloo, Ontario

May 2016 – Aug 2016

- Leveraged Excel macros to design automated month-end report templates, reducing reporting times by 70%
- Identified critical one-off bugs in the testing phase of new web-based work request platform "Service Now," leading to efficient deployment and deprecation of a major legacy tool
- Launched Sun Life's agile workspace initiative by delivering a successful research proposal to project managers

PROJECTS

Titanic Dataset Challenge • Python (pandas, seaborn, scikit-learn)

May 2018

- Performed predictive analysis on Titanic dataset using various machine learning techniques (ie. random forest, KNN, logistic regression, gradient boosting machines) placing top 20% on leaderboard

Citadel Securities Datathon – Technical Report • Python (numpy, pandas, matplotlib), R

Feb 2018

- Analyzed 60M+ records of Geotab data to investigate the correlation of high traffic locations to accident rates
- Co-authored a technical paper on the methodology, data manipulation, and key findings of the above analysis

Startup Database Project • SQL, Microsoft Access

Nov 2017

- Built a relational database for storing retail sales and payroll data from preliminary BPMN and UML designs
- Developed ETLs using SQL to provide customized reports and analysis used to guide management decisions

ACTIVITIES

Volunteerism University of Waterloo Math Faculty Ambassador and Orientation Leader, Women's College Hospital Volunteer, Relay for Life Exec (raised \$4000+ for the Canadian Cancer Society)

Interests Toronto City Orchestra First Violinist, Warriors Ping Pong Club, Dance Life X Ballet

Conferences Canadian Undergraduate Technology Conference, IBM STEM Female Millennial Conference