

EDUCATION

Honors Bachelor of Science in Computer Science and Statistics

Sep. 2018 - Apr. 2023 (Expected)

University of Toronto Scarborough, Scarborough, ON

- Relevant Coursework: Software Design, Data Structures Design and Analysis, Introduction to Probability, Introduction to Statistics, Linear Algebra II, Calculus of Several Variables I, Calculus of Several Variables II

Bachelor of Commerce in Accounting and Economics

Sep. 2009 - Jun. 2014

University of British Columbia, Vancouver, BC

TECHNICAL SKILLS

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|--------------------------------|--|
| • Programming Languages | Python, R, C/C++, Java, SQL, MATLAB, Scheme/Racket, Haskell, LaTeX |
| • Development Tools | Git/GitHub, SVN |

SIDE PROJECTS

[pyQuant](#) | Python

- Researched portfolio management strategies and implemented allocation algorithms for historical back-testing.
- Developed a quantitative stock selection model to identify high-growth stocks in the S&P 500 and the Dow Jones Industrial Average by analyzing fundamental data of individual stocks using financial data API.
- Automated stock screening process on Google Cloud Virtual Machine to receive daily price alerts through email.

[pyTrader](#) | Python

- Utilized Oanda API to analyze FX market data and automatically trade FX pairs for profit opportunities.
- Implemented systematic trading strategies in python and deployed them in a Google Cloud Virtual Machine to run them on the cloud using screen and crontab libraries.
- Predicted future prices of trading instruments using Prophet, an open-source time-series data forecasting model developed by the Facebook Data Science team to optimize market timing.

[qPortfolioAnalytics](#) | Python

- Customized open-source Questrade API wrappers to enable multiple accounts access/management by manipulating existing codes and building on additional features.
- Automated receiving daily account summary in email by writing a python script that accesses account activities and performance changes through API and automatically sends an email using smtplib and email modules.

[JShell Mock File System](#) | Java

- Developed an interactive command shell in Java as a final course project of CSCB07 (Software Design).
- Applied software design principles to come up with a good code design for maintainability and scalability.
- Managed scrum meetings and team discussions to help teammates stay on track with the development process.

[Galaxy Fighter](#) | Python

- Developed a shooting game in Python, using functions provided in the pygame library.
- Applied Object-Oriented Programming (OOP) concepts to create a maintainable, adaptable, and extendable code base and to manage various components of the game more easily.

WORK EXPERIENCE

Corporate Finance Manager

Sep. 2017 - Jan. 2018

Bell Canada, Mississauga, ON

- Performed monthly expense settlement tasks on Bell Mobility division accounts to record accounting journal entries and inform senior managers of any variances against pre-determined budget figures.
- Analyzed performances of offline Bell stores across Canada using various analytic factors to identify under-performing stores for restructuring or permanent closure.

Discretionary Futures Trader

Nov. 2015 - Mar. 2017

Nymbus Capital, Montreal, QC

- Traded 10-Yrs Government of Canada Bond Futures (CGB) in TMX by identifying intraday trading opportunities.
- Researched various discretionary trading strategies to improve market timing and maximize intraday profits.

Trading Intern

Sep. 2014 - Dec. 2014

Amplify Trading, London, United Kingdom

- Learned theoretical basics of futures markets and correlations between different assets for discretionary intraday futures trading.
- Presented fundamental news summary and potential trading setups to a group of full-time traders and interns every morning and reviewed executed trades at the close of market for peer feedback.