

## EDUCATION

**BASc - Industrial Engineering**  
**University of Toronto, 2021**  
with a minor in Business

## SKILLS

- GitHub
- MS Office 365
- MS Access and MS SQL Server
- Jupyter Notebooks / Google Colaboratory
- Django open-source web framework

### Programming Languages

- Java
- SQL
- Python (incl. PyTorch, NumPy, SciPy, Matplotlib, pandas, scikit-learn)
- R, MATLAB, Minitab
- HTML, CSS, Javascript
- Visual Basic for Applications (VBA)

## AWARDS & ACHEIVEMENTS

- Ontario's Principal Award for Student Leadership, 2017
- Dean's Honour List, 2020

## INTERESTS

- **Soccer** - UofT TriCampus Development League, Fall 2018 Champions
- **Travel**
- **Fitness / Weight Lifting**

## PROFESSIONAL EXPERIENCE

### Scotiabank, Sales & Trading Intern Analyst

**May 2020 — Apr 2021**

#### *Fixed Income Derivative Solutions*

*May — Aug 2020*

- Developed a full stack web application to track daily changes in credit spreads from various sub-sovereign issuers relative to the Canadian Government yield curve, and the composition of the FTSE Russell Canadian Universe Bond Index
- Built an MS SQL Server database to store historical data used to visualize trends and further assist with marketing practices
- Developed and automated reports using Bloomberg to assist with issuance recommendations from sales by outlining key sessional dates and market updates

#### *Prime Services*

*Sep — Dec 2020*

- Created detailed spreadsheets and conducted quantitative analysis to identify trends and develop forecasts on client short market value positions, profits, and ROI
- Responsible for reviewing and instructing option invoice payments to key executional brokers, and acted as the main point of contact for resolving issues
- Assisted with the development of presentation decks by aggregating and reporting data related to the weekly funding requirements of the business line

#### *XVA Trading*

*Jan — Apr 2021*

- Booked and blottered daily trades and hedges as required by the team to aggregate and calculate resulting profit over the day
- Built and maintained a process to web scrape online data sources for collateral requirements and pricing purposes, reducing report generation time by 50%
- Automated the calculation of beta hedge ratios for various single name credit default swaps against the CDX IG index using Python, improving report generation time by 25%

## PROJECTS & COMPETITIONS

### NBA Playoff Result Prediction, Data Analytics Project in Python

**Nov 2019**

- Utilized logistic regression from the scikit-learn Python library to predict the outcome of a matchup of two teams in the playoffs by training the model on regular season data, achieving an overall model accuracy of 65%
- Built a Monte Carlo simulation to replicate the behaviour of one thousand playoff series in a given year, where the frequencies of resulting winners were compared against actual victors

### UofT Engineering Finance Association (UTEFA)

**Mar 2019**

#### *Stock Pitch Competition — 3rd Place*

- Created and presented a stock pitch to a panel of six industry judges (including investment bankers from Barclay's, BMO Capital Markets, and NBC Financial Markets, and traders from CIBC Capital Markets) in a team with three other students
- Recommended a long position in Disney stock (NYSE: DIS) at ~\$108.23/share with a \$126 target price based on the belief that Disney's recent acquisition of Fox was more accretive than the current market sentiment