Maria Papadimitriou

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EDUCATION

University of Toronto **Sep 2017 – May 2022**

Bachelor of Industrial Engineering candidate (B.A.Sc.) 3.72 sGPA Toronto, Canada

- Double Minor in Engineering Business and Artificial Intelligence
- Dean's Honour List, 2020

WORK EXPERIENCE

Scotiabank **May 2020 – Apr 2021**

Sales & Trading Intern Analyst – Fixed Income Derivative Solutions ***May – Aug 2020***

- Developed a full stack web application in Python, HTML, CSS, JavaScript, and jQuery, using a Django web framework to plot daily changes in credit spreads from various sub-sovereign debt issuers
- Built a MS SQL Server database to store historical data used to visualize trends and further assist with marketing practices by successfully reducing data extraction workflow by 80%

Sales & Trading Intern Analyst – Prime Services ***Sep – Dec 2020***

- Built a MS Access database containing short positions of clients including average borrowing and lending rates, and calculated Profit and Loss
- Developed a plotting tool using VBA to create visualizations on client data to automate the development of client specific reporting used in marketing practices and accelerated task flow by 30%

Sales & Trading Intern Analyst – XVA Trading ***Jan – Apr 2021***

- Implemented and maintained a process to web scrape online data sources using Python for collateral requirements and pricing purposes, reducing report generation time by 50%
- Automated the calculation of beta hedging ratios for various single name credit default swaps against the CDX IG index using Python, improving report generation time by 60%

PROJECTS

Personal Website **Feb 2021**

- Built personal resume website using HTML, CSS, and JavaScript, incorporated human factors and user interface heuristics by creating site structure, navigation, and graphics integration

Bike Route Comparison Tool – Capstone Project **Sep 2021 - Today**

- Designed and developed a full stack web application using HTML, CSS, JavaScript, SQL, and Python using a Django framework, with a MapBox API integration to display and allow users to draw potential bike routes on a Map of the city of Toronto
- Built and stored data in a SQLIte database where calculations are developed from front-end inputs and a JsonResponse is returned containing data to display visualizations for cost, ridership, emissions saved, and safety predictions of the bike lanes
- Utilized uncertainty arithmetic principles to capture the uncertain nature of the projected variables

SKILLS

- **Programming Languages: (*Proficient):*** Python (incl. PyTorch, NumPy, SciPy, Matplotlib, pandas, scikit-learn), SQL, HTML, CSS, JavaScript, VBA, (***Familiar):*** Java, R, MATLAB
- **Tools:** GitHub, MS Office 365, MS Access, MS SQL Server, SQLite, Django open-source web framework