

Maria Papadimitriou

maria.papadimitriou@mail.utoronto.ca | (647) 216-1213 | Toronto, Canada | [LinkedIn](#) | [GitHub](#) | [Website](#)

EDUCATION

University of Toronto

Sep 2017 – May 2022

Bachelor of Industrial Engineering (B.A.Sc.) 3.72 sGPA

Toronto, Canada

- 4th Year Industrial Engineering Capstone Award (2022), Peri Family Award (2022, valued at \$2000)
- Double Minor in Engineering Business and Artificial Intelligence
- Recognized positions: *President*, University of Toronto Engineering Finance Association (UTEFA)

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

Industrial Engineering Capstone Project, First Place – (<https://tinyurl.com/bikeroutetool>)

Sep 2021 – May 2022

- Liaised regularly with client to fine-tune engineering design requirements to develop an in-scope solution
- 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 an 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
- Streamlined the preliminary planning process required of the client from 2 hours to 30 seconds to allow them to allocate more cognitive resources on complex tasks to lead Toronto into a more sustainable future

Run to Give (RTG) Toronto, Website (freelance work – www.runtogive.ca)

Jan – Mar 2022

- Built and hosted RTG a website using HTML, CSS, and Javascript for marketing initiatives
- Incorporated human factors and user interface heuristics by creating site structure, navigation, and graphics integration

SKILLS

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