

EDUCATION

University of Waterloo

Sept 2019 - Dec 2024

Honours Bachelor of Mathematics

Major: Mathematical Studies

Minors: Combinatorics and Optimization, Computing, Economics

Awards: President's Scholarship, Outstanding Student at York University's ABMP

Relevant Coursework: Software Engineering, Cryptography, Data Types and Structures, Financial Math, Models of

Choice: Competitive Markets, Equilibrium in Market Economies, Biostatistics, Operations Research

SKILLS

Languages: Python, Java, R, SAS, SQL, HTML, CSS, Racket

Softwares: JIRA FileMaker Pro, Microsoft Excel (Advanced formulas, pivot tables, charts), Git, Linux, Adobe Premiere Pro, VideoPad, Audacity

PROJECTS

Electric-Vehicle Charging Station Network Enhancement, Optimization in the Kitchener-Waterloo-Cambridge CMA

- Conducting analyses using geographic data(boundary, charging infrastructure, transit) and existing population and EV data, used numerical modelling to optimize potential locations in the KWC-CMA. Optimization of the model increased coverage of Level 2 chargers from 14.57% to 96.14% within a 0.50 km radius, Level 3 chargers from 1.78% to 85.40% within a 0.75 km radius

The Glow Centre's Library Database

- Used FileMaker Pro to make a comprehensive database for a selection of books from the University of Waterloo's library database, with a [video presentation](#)

EXPERIENCE

Waterloo Undergraduate Student Association

Jan 2023 - Dec 2024

External Director, Equity Services

- Fostered partnerships and acted as a liaison between university and regional organizations
- Facilitated outreach initiatives by inviting external organizations to participate in equity service events, actively engaging with regional organizations and representing services at community advocacy meetings

Money, Our Values & Banking Operations: A Competitive Analysis of RBC & Competitor ESG Reports

May 2024 - June 2024

Professional Experience Program

Offered in collaboration with York University's Asian Business and Management Program and led by a mentor from RBC, this program featured a realistic Competitive Analysis project focused on ESG. Project phases included:

- SWOT/PEST analysis and problem statement development with competitor/sector analysis, research of key trends
- Development and critical assessment of alternative strategies with formal presentation of final recommendations

Waterloo Undergraduate Student Association

May 2022 - Dec 2022

Service Coordinator, Equity Services

- Supervised operations for 97 team members (10 executives, 87 volunteers), ensuring efficient workflow
- Managed day-to-day facility operations, logistics coordination, and safety compliance
- Oversaw project finances and collaborative initiatives while maintaining operational standards