

Work Experience

- Crowdmark** Toronto, ON
Software Developer & Data Scientist *October 2020 - Present*
 - Created an AI based plagiarism detection algorithm that ETLd unstructured JSON data, passed through the algorithm (Python) and displayed the results to the end user.
 - Created features (rotate pages, "undo" functionality in grading interface) following TDD.
 - Fixed bugs on both the front (Ember.js) and back (Ruby on Rails) end. Bug tracking on GitHub.
 - Presented new feature ideas, with written reports, to non-technical users on how they would add value.
 - Started the teams TikTok marketing campaign by creating content and convincing the marketing team to pivot to this platform.
 - Presented a novel sales strategy to the sales team that expanded Crowdmarts market reach to overlooked elementary schools in the US.

Skills

Languages & Frameworks R, Python, PostgreSQL, Ruby on Rails, Javascript (React & Ember), HTML, Docker, Kafka and learning AWS SageMaker.

Statistics: Regression Models, Time Series, Bayesian Methods, A/B testing, Data Mining, NLP, Machine Vision.

Coding: Algorithms & Data Structures, OOP, Database Design, Relationships & ORM, UNIX, Clean code principles, TDD, Debugging.

Communication: As a former McGill Debate Club member I am able to quickly and effectively communicate complex ideas.

Work Ethic: To create my FinSwap web-app I learned and implemented Graph Theory & Web Development in my spare time during my masters.

Collaboration: Always collaborating with colleagues in code reviews and pairing to fix bugs and flush out features.

Initiative & Problem Solving: Constantly suggesting new ideas for features and plans to improve our companies platform and revenue (Pivoting marketing to TikTok, Expanding our reach to untapped schools, creating a plagiarism detector to capitalize on the shift to online learning due to Covid-19).

Education

- York University** Toronto, ON
Master's of Science in Statistics *2019 - 2020*
- McGill University** Montreal, QC
Bachelor of Arts in Mathematics and Economics, Minor in Finance *2014 - 2019*
 - Senior Thesis: Effect of the minimum wage on US college enrolment rates using mixed models.

Personal Coding Projects

- **FinSwap** Toronto, ON
Full Stack Developer *December 2019 - August 2020*
 - Created a web-app that leverages Graph Theory to match teaching assistants based on their preferences to swap exam/midterm invigilation duties.
 - Stack: React.js, Ruby on Rails, PostgreSQL. Matching algorithm written in Python.

Interests

Academic: Bayesian Statistics, Education economics, policy and tools.

Hobbies: Squash, cycling, bird watching and reading history.