

Skills

Technical Skills: SQL, SAS, Excel, Python (Pandas, NumPy, SciPy), C, Java, PHP, HTML/CSS

Data Science: Linear Regression, Hypothesis Testing, Probability Distributions, ANOVA, Decision Trees, Data Cleaning, Data Visualization, Clustering (K-means)

Technologies: Bootstrap, IntelliJ IDEA, Visual Studio, Git, Jupyter, WEKA

Education

Seneca College: Honours Bachelor of Commerce (Business Technology Management)
Cumulative GPA: 4.0/4.0
Awards: President's Honour List x3

2018 - 2022

Work Experience

Data Scientist: Royal Bank of Canada

May 2022

- Accepted a full-time offer to join the DNA (Data & Analytics), Data Services team upon graduation (May 2022)

Data Scientist (Amplify Program): Royal Bank of Canada

May 2021 – Aug 2021

- Collaborated with a cross-functional team of developers and business analysts to build an end-to-end MVP for the Goodside app (RBC Ventures) that predicts carbon emissions using SKU-level data from consumer shopping receipts, optimizing the user growth strategy, and increasing user retention by **15%**
- Managed the roadmap and overall product vision of the MVP by fostering a data-driven approach to the decision-making process, projecting an increase of **\$4.2M** in credit card revenue from the lifetime value of the user
- Utilized **NLP** and **text-mining** techniques to extract data points from shopping receipts, producing an accuracy of **78%** in identifying UPC's and line items
- Developed data models using **Python** and created backend **APIs** through **Flask/ExpressJS** that predict carbon emissions from grocery purchases to provide users with personalized insights and recommendations to improve their carbon footprint
- Created a comprehensive data asset of product level carbon emissions (**PostgreSQL**) that will be implemented for use across the RBC enterprise

Software Developer Intern: Bank of Montreal

May 2020 – Dec 2020

- Created a technical document to share knowledge of Privileged Access Management (PAM) through **CyberArk** which is currently being used by the team (10 employees)
- Architected release pipeline for **UAT/SIT** to deploy production patches that involved **15+** medium vulnerabilities
- Developed a run log tool for the Credit Risk Infrastructure team using Microsoft **SQL** Server Integration Services (SSIS) which improved development efficiency by **25%** for field and entity additions in the **ETL pipelines**
- Coordinated between the software development team and application support testers to set up a Secure Server Gateway (SSG) to allow remote access to a database for a specific Active Directory (AD) group

Software Developer Intern: JP Laboratories

Jan 2020 – Apr 2020

- Re-designed a fully responsive front-end with **HTML/CSS** and **Javascript** using **Bootstrap** components which resulted in **1,027** unique visitors (**78%** increase) in one month
- Created multiple forms that sends queries to a mail server through **PHP** and **Javascript** that iteratively amended features and handled corner cases according to user feedback

Cards Advisor: Royal Bank of Canada

Jul 2019 – Sep 2019

- Performed credit-related tasks, including balance transfers, credit limit increases and credit card upgrades

Competitions

Health Data Science Competition: University of Toronto - Biotechnology

Oct 2020

- Developed a **multivariate regression** model using Python (**Scikit-learn**) to see the proportion of variance between variables such as age, obesity, and gender with the effectiveness of the treatment (Survival Analysis)