

EDUCATION

University of Waterloo, Canada

Sep 2015 - Aug 2019

Honours B. Math., Joint Major in Computer Science and Statistics

Coursework: Algorithms, Data Structures, Operating Systems, Object-Oriented Programming, Statistical Learning, Forecasting, Applied Linear Models.

SKILLS

Languages Tools/OS Interests

Python (pandas, scikit-learn, flask), SQL, C++, PHP, D3.js, Java, R (dplyr, xgboost) Hadoop (Spark, MapReduce, Oozie, Hive, Sqoop), git, bash, Linux, LaTeX

Applied Machine Learning, Data Visualization, Time Series, Deep Learning

EXPERIENCE

Facebook

Jan 2019 - Apr 2019

Menlo Park

Software Engineering Intern

- · Built and launched classifiers for content fact checkability using gradient boosting and word embedding to optimize Fake News ranking algorithm. The model is currently used for two post types and improves misinformation models' precision by 25%.
- · Initiated and implemented the usage of new features in current misinformation models.

Salesforce

May 2018 - Aug 2018

San Francisco

Software Engineering Intern

- · Optimized platform components in **Python** and **Java** with replication and scalability features to transport large scale data from key-value store to relational databases.
- · Developed ETL pipelines and UDF to efficiently store, query and analyze data in Hadoop (Oozie, Hive).
- · Developed new database schema with adjusted metric definitions to minimize discrepancies.
- · Assisted data scientists with **time series** analysis to predict resource inadequacy events.

Scotiabank Data Science Intern Sep 2017 - Dec 2017

Toronto

- · Cleaned and feature engineered millions of customer browsing data points using R and Hadoop Framework (HDFS, MapReduce, Spark) to investigate the efficiency of third party data for marketing campaigns.
- · Utilized **R** for data exploration and dimensionality reduction through data plots and best subset selection.
- Tuned hyperparameters through grid search and k-fold cross validation techniques.
- Predicted digital banking likelihood of new customers using xqboost and random forest with 73% accuracy.

IBM

Jan 2017 - Apr 2017

Ottawa

Data Analytics Developer

- · Built an automated system to create scheduled data visualization using D3.js and Jinja2.
- · Made recommendations on data visualizing libraries based on experiments with Kibana, Plot.ly, and NVD3.

PROJECTS

Instagram Destinations

In Progress

- · Created a map of suggested locations from 10 travel instagrammers with pictures using **Mapbox**.
- · Implementing real time data fetching using a **PostGres** database and allow hashtag/username gueries.

Bookclub Jul 2018

- · Created a website where users can sign in to review 5000 books from the GoodRead API.
- · Connected database using **SQLAlchemy** and created web application using **Flask** and **BootStrap**.

Predict and Visualize Software Internships Trends at UWaterloo

- · Built a reactive directed graph of 86 most recurrent companies and their number of interns using **D3.is**.
- · Collected company ratings, revenue, etc. from Glassdoor using **Selenium** and **Requests**.
- · Trained an **ensemble model** to predict the most fitting company given a student's experience.

ChamberCrawler3000 (CS246)

Jul 2017

- Designed and implemented 20 character, potion, and treasure classes in **C++** to interact with game engine.
- · Developed random generator algorithm to place items of different frequencies on floor map.

ACTIVITIES AND VOLUNTEER EXPERIENCE

Future Blue Lead, IBM

Jan 2017 - Apr 2017

· Co-Organized bi-monthly career development workshops and social events for 30 interns.