YUAN ZHANG

✓ yuanz2299@gmail.com yzhang0.github.io yzhang0 Looking for Jan 2019 internship

EDUCATION

University of Waterloo, Canada

Sep 2015 - Aug 2019

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

Coursework: Object-Oriented Programming, Data Structures and Algorithms, Database Management, Forecasting, Applied Linear Models, General Linear Models.

SKILLS

Languages Tools/OS Interests

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

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

EXPERIENCE

Salesforce

May 2018 - Aug 2018

San Francisco

Software Engineering Intern

- · Developed ETL pipelines and UDF to efficiently store, query and analyze data in Hadoop (Oozie, Hive).
- · Optimized platform components in **Python** and **Java** with replication and scalability features to transport large scale data from key-value store to RDBMS.
- · Investigated discrepancies between data sources and improved data quality by defining clearer metrics.
- · Assisted data scientists with **time series** analysis to predict resource inadequacy events.

Scotiabank

Sep 2017 - Dec 2017

Toronto

Data Science Intern

- · Predicted digital banking likelihood of new customers using supervised learning in R with 73% accuracy.
- · Cleaned and analyzed millions of customer browsing data points using the **Hadoop Framework (HDFS.** MapReduce, Spark) to investigate the efficiency of third party data for marketing campaigns.
- · Delivered presentations on how to leverage machine learning for leadership of different technical familiarity.

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**.
- · Built and tested a real-time data processing program using **reactive programming** to generate log files.

Agriculture and Agri-Food Canada

Web Statistics Specialist

May 2016 - Aug 2016

Ottawa

- · Assisted users in interpreting **web statistics** reports and investigated possible discrepancies.
- Trained a team of two interns and five full time on web analytics and wrote a 15-page reference manual.

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.

Jul 2018

- · Created a website where users can sign in to review 5000 books from the GoodRead API.
- · Connected database using **SQLAIchemy** 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.

Best Selling Mangas Bubble Chart

Mar 2017

· Built a **bubble chart** with data from Wiki and external images from Mangapark using **D3.js** and **Python**.

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.

Student Life Award 2015, MarianArtist Club

Sept 2014 - Apr 2015

· Coordinated 15 clubs and artisans for a Christmas bazaar and fundraised \$1000 for Nepal earthquake victims.