YUAN ZHANG

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

SKILLS

Languages Tools/OS Interests

Python (pandas, scikit-learn, flask), Java, SQL, C++, C, 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

Software Engineering Intern

San Francisco

- · Develop **ETL pipelines** and **UDF** to efficiently store, query and analyze data in **Hadoop (Oozie, Hive)**.
- · Optimize platform components using **Python** and **Java** with replication and scalability features to transport large scale data from key-value store to RDBMS.

Scotiabank

Sep 2017 - Dec 2017

Data Science Intern

Toronto

- · Designed and developed a model using supervised learning in Hive and R to predict digital banking likelihood of new customers with an accuracy of 73%.
- · 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 with data visualizations on how to leverage machine learning on the new digital platform for leadership of different technical familiarity.

IBM

Jan 2017 - Apr 2017

Data Analytics Developer

Ottawa

- · Wrote **Python** scripts to detect anomaly and user trends using hourly warehouse data from CouchDB.
- · 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 and wrote a 15-page reference manual on web analytics.

PROJECTS

Bookclub Jul 2018

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

Predict and Visualize Software Internships Trends at UWaterloo

Jan 2018

- · 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** in Python.
- · 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.

Dept. of Statistics Representative, Women in Math Committee

Oct 2015 - Aug 2017

· Represented female students in the Statistics program during committee meetings.

Student Life Award 2015, Marian Artist Club

Sept 2014 - Apr 2015

· Co-Directed a Christmas bazaar and fundraised 1000\$ for Nepal earthquake victims.

EDUCATION

University of Waterloo, Canada

2015 - 2019 (Expected)

Honours B. Math., Joint Major in Computer Science and Statistics Coursework: Object-Oriented Programming, Data Structures and Algorithms, Forecasting, Applied Linear Models, General Linear Models, Intro to Combinatorics.