YUAN ZHANG

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SKILLS

Languages Tools/OS Interests

Python (pandas, scikit-learn), R (dplyr, xgboost), SQL, C, C++, D3.js, HTML/CSS

Hadoop (Spark, MapReduce, Hive, Sqoop), git, bash, LaTeX Applied Machine Learning, Data Visualization, Deep Learning, Digital Marketing

EXPERIENCE

Salesforce

May 2018 - Aug 2018

Software Engineering Intern

- · Create a dockerization tool for the different components of the data workflow.
- · Develop ETL pipelines which allow a secure efficient way to store, monitor and analyze infrastructure data.

Sep 2017 - Dec 2017 Scotiabank

Data Science Intern

- · Led a **cold start model** to predict digital banking likelihood of new customers with an accuracy of 73%. Implemented the project using supervised learning in Hive, Python and R.
- · Cleaned and analyzed millions of customer browsing data points using the **Hadoop Framework (HDFS, MapReduce, Spark)** to investigate the effeciency of third party data platform 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.

Jan 2017 - Apr 2017

Data Analytics Developer

- · 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 detailed experimentation with Elasticsearch. 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

May 2016 - Aug 2016

Web Statistics Specialist

- · 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

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** in Python.
- · Trained an **ensemble model** to predict the most fitting company given a student's experience.

DSTL Satellite Image Feature Detection

In Progress

- Enhance the resolution of aerial layouts using panchromatic sharpening and georeference pixels.
- · Predict the object classes in satellite images using **Keras** and **TensorFlow** for **semantic segmentation**.

Best Selling Mangas Bubble Chart

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

AWARDS

Student Life Award 2015

Co-Organized a 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.