Ankai Jie

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University of Waterloo

Sept 2015 — Present Year 4

FDUCATION

Bachelor of Computer Science, Major in Data Science with Business Option Deans Honours List, 3.9 GPA

Marsh Memorial Scholarship, President's Scholarship, Research Scholarship

SKILLS

LANGUAGES

Python, Scala, Java, C++, SQL, Bash, R, Javascript

DATA ANALYTICS

Hadoop, Hive, HBase, Spark, MapReduce, Kafka, Apache Giraph, Redshift, MySql, PostgreSQL

INFRASTRUCTURE

AWS — EC2, EMR, RDS, ECS, Azure, Docker, Jenkins, Airflow

OTHER

SBT, Node.js, JQuery, D3.js AngularIS, Git, Maven

EXPERIENCE

ML ENGINEERING

Yelp

San Francisco, CA, USA

SOFTWARE ENGINEERING

Coursera Mountain View, CA, USA

- Create XGBoost feature with Word2Vec on review text, reducing ad click prediction (CTR) error by 5%
- Develop MapReduce job to split metrics by feature and ad category, allowing for more detailed evaluation of ad CTR model

Jan 2018 — April 2018

Sept 2018 — Present

- · Created Scala job for key Coursera partners to dynamically regrade learners for updated assessments
- Developed REST resources and database logic in Scala for group project assessment system used in master and undergraduate level degree courses

May 2017 — Aug 2017

DATA ENGINEERING

The Meet Group San Francisco, CA, USA

- Developed MapReduce jobs to approximate billion record distinct counts using KMV sketchsets
- Engineered scalable data pipeline on Hadoop to analyze time series metrics on HBase and Redshift
- Integrated Python/Ansible to automate jobs, ETLs, and application deployment on AWS

DATA ENGINEERING

Scotiabank Toronto, ON, Canada

- Developed data pipeline for behavioural analysis on large scale temporal graphs with visuals in D3
- Implemented all-pairs shortest paths in Java for time series data aggregation using Apache Giraph

PROIECTS

311 SERVICE ANALYSIS

Python, Scikit-learn, R

- Applied k-means to geographically cluster 311 service requests and used time series forecasting
- Provided meaningful suggestions to improve 311 resolution efficiency through low-cost decisions
- 1st place winner at Citadel's Data Open Waterloo for \$20 000

CITATION ANALYZER

Undergrad Researcher Python, Celery, Flask, SQL

- Theory-crafted graph processing algorithms with graduate studies professor to identify influential and fraudulent researchers in Academia
- Developed pipeline in Python to ingest Scopus data and visualize million record datasets on the web

HEY KANYE!

Python, SQL Server, Azure Cognitive Services

- Rap song generator that uses Markov chains and parse trees to create/sing custom hip-hop lyrics
- · Winner of Hack the North, Microsoft Azure award

AWARDS & COURSES

- **AWARDS** 1st Place Citadel Data Open Waterloo, 2018
 - · UWaterloo Datafest Winner, 2018
 - Hack the North Winner, 2016
 - Microsoft Azure Cloud Award 2016
 - Euclid Math contest Honour Roll, 2015

- **COURSEWORK** Data Structures (Enriched) and Algorithms
 - Computational Statistics and Data Analysis
 - Introduction to Machine Learning
 - Regression, SVMs, Neural nets, RNNs, CNNs, GBTs
 - Oracle lava SE 8 Certification