

Ankai Jie

W: ankaijie.com

P: 647-965-4305

E: ankaijie@gmail.com

EDUCATION

UNIVERSITY OF WATERLOO

Sept 2015 — Present
Year 4

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, Scheme,
HTML, CSS

DATA ANALYTICS

Hadoop, Hive, HBase, Spark,
MapReduce, Kafka, Tez, Yarn,
Apache Giraph, Redshift, MySQL,
SQL Server, PostgreSQL

INFRASTRUCTURE

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

OTHER

SBT, Node.js, JQuery, D3.js
AngularJS, Backbone.js, Git,
Bootstrap, MongoDB, SASS, J2EE,
Maven, Spring

EXPERIENCE

SOFTWARE ENGINEERING

Coursera
Mountain View, CA, USA

Jan 2018 — April 2018

- Created Scala job for major degree partners to dynamically regrade learners for updated assessments
- Developed REST resources and database logic in Scala for team-based assessment system used in master and undergraduate level degree courses
- Integrated Coursera platform and slack for learners with use of Kafka

DATA ENGINEERING

The Meet Group
San Francisco, CA, USA

May 2017 — Aug 2017

- Developed MapReduce jobs to approximate billion record distinct counts using KVM sketchsets
- Created an Airflow data pipeline on Hadoop for time series data analysis on HBase and Redshift
- Integrated Python/Ansible to automate MapReduce jobs, ETLs, and application deployment on AWS

DATA ENGINEERING

Scotiabank
Toronto, ON, Canada

May 2016 — Aug 2016

- Developed Hadoop data pipeline for behavioural analysis on billion node temporal graphs
- Implemented all-pairs shortest paths in Java for time series data aggregation using Apache Giraph
- Automated data visualizations, ETLs with Python/Spark, and graph visualizations with D3.js

WEB DEVELOPER

Dawn Infotek
Toronto, ON, Canada

May 2015 — Aug 2015

- Built a robust data management system using AngularJS and J2EE with Spring on the backend

PROJECTS

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

Research Project
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 & MISC

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

- Oracle Java SE 8 Certification
- Data Structures (Enriched)
- Computational Statistics and Data Analysis

ACTIVITIES

- Microsoft Student Partner, 2016 — Present
- Debate, Tennis, MMA