Ankai Jie

🎓 Education

Candidate for Bachelors of Computer Science
University of Waterloo
3.9 GPA
Sept 2015 - Present

International Baccalaureate Graduate
Bayview Secondary School
99% Average, 44/45 IB Points
Sept 2011 - June 2015

🧠 Skills Summary

Bash

▶ Practical experience with Linux OS

▶ Write multi-purpose shell scripts for any Linux based application

Java

▶ Solid OOP foundation from working with Java in full scale web and data processing applications

▶ Oracle certified Java SE 8 programmer

Javascript

▶ Extensive use of web frameworks: Angular.js, Node.js, Backbone.js, D3,js

▶ Javascript and JQuery web development experience

Python

▶ Implement algorithms for data processing, natural language processing, and machine learning

▶ Deep knowledge of the intricacies and kinks of the Python language

SQL

▶ Write complex (hundreds of lines) graph processing and data analysis functions on SQL

▶ Proficient with database management — Hadoop, MySQL, SQL Server

👤 Contact Me

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💼 Relevant Experience

Data Science Engineer / Scotiabank   May 2016 - August 2016

▶ Wrote and integrated SQL scripts, Shell scripts, and Apache Giraph computations to convert any static network to a temporal network

▶ Automated process of calculating key centrality metrics and identifying important relational and numerical information on Hadoop for temporal networks using layered SQL scripts and Java UDAFs

▶ Implemented all pairs and single source shortest paths algorithms with Java on Apache Giraph for network analysis

▶ Developed a Hadoop integrated visualizing tool with Spark API and Matplotlib on Python for easy graphing and profiling of temporal networks and US Marine Imports data

▶ Expanded nodes and edges tables of Marine Imports network to include data and metrics on notified parties on arrival of shipment

▶ Designed and implemented algorithm to save state of a graph in the URL of the web network visualizer

▶ Improved functionality and UI of data display and search/filter features of the network visualizer using D3.js and Backbone.js

Web and Java Developer / Dawn InfoTek   May 2016 - August 2016

▶ Designed and developed robust database user interface and management tool using AngularJS

▶ Integrated and tested web tier to database tier using Java, Spring, and the MVC framework

▶ Lead AngularJS learning session for JQuery based team members

🔧 Projects

Academic Fraud Detector

▶ Program that uses bulk collection/graph processing algorithms on Google Scholar data to identify culprits of citation fraud in academia.

▶ Written in python, created as part of UWaterloo research assistantship

HeyKanye!

▶ Rap song generator that takes a large database of song lyrics and uses statistical analysis, Markov chains, and parse trees to generate structurally accurate lyrics and sync them to a beat.

▶ Written with SQL, Python, Node.js. Winner of Hack the North 2016 and MS Azure API prize.

Personal Website - ankaijie.com

▶ Web application that visualizes me as a graph written with D3.js and Backbone.js. Contains my complete portfolio of projects.