

# Ankai Jie

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## Education

### Candidate for Bachelors of Computer Science

University of Waterloo  
3.9 GPA  
Sept 2015 - Present

## Skills Summary

### Languages

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

### Database/Data processing

Hadoop, Apache Giraph, Apache Spark, Neo4J, Hive, MySQL, SQL Server, Postgres

### Web Tools/Frameworks

AngularJS, Backbone.js, Node.js, JQuery, D3, HTML, SASS, CSS, Bootstrap, Spring MVC, Express.js, MongoDB, Grunt

### Other Tools

Git, Junit, Maven, Vim, Microsoft Azure

## Awards

### Winner, Hack the North, 2016

Top 10 for HeyKanye, from over 250 teams

### Azure API Prize, Microsoft, 2016

Placed 1st for best use of Azure for HeyKanye

### University of Waterloo, 2011—2015

Deans Honour List, 2016

Honour Roll for Pascal, Cayley, Fermat, Euclid math contests

### Marsh Memorial Scholarship for Computer Science, Marsh LLC

\$4000 to one distinguished student

## Extracurriculars

### Microsoft Student Partner, 2016

- Lead tech workshops for other students
- Learn new technologies with Microsoft

**Muay Thai, Tennis, Debating**

## Work Experience

### Data Science Engineer / Scotiabank

May 2016 - August 2016

- Researched and developed process on Hadoop to analyze and generate temporal graphs and temporal features of transactional data
- Developed comprehensive tool for graphing and visualizing datasets using Apache Spark and Python used to present to international business partners and corporate clients
- Created a mechanism for saving customized in browser data visualizations with Node.js and Backbone.js featured in bank wide product demo
- Implemented a scalable framework for running bulk graph processing algorithms in Java with Apache Giraph for regular use by the team
- Pioneered solutions to analyze data integrity and built ETL pipelines

### Web and Java Developer / Dawn Infotek

June 2015 - August 2015

- Designed and developed a new, robust web-based database management tool and user interface using AngularJS for internal company use
- Integrated and tested web to database pipeline using Java, RESTful web services, and Spring MVC
- Led AngularJS learning session for JQuery based team members

## Research

### Undergraduate Research Assistant / University of Waterloo Jan 2015-Present

- Investigating citation fraud in academia: methods of detection, prevalence
- Implement SQL data processing algorithms on the citing relationships between tens of thousands of papers in the computer science discipline

## Projects — [github.com/AnkaiJie](https://github.com/AnkaiJie)

### 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.
- Winner of Hack the North 2016/Winner of Microsoft Azure Best Usage prize

### MovieQueue

- Node.js web application that allowed users to pin movies and share them with friends using Facebook API

### Personal Website - [ankaijie.com](http://ankaijie.com)

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