

XXX XXX

Address:

Tel:

E-mail:

Education

| | |
|--|------------------------|
| University at Buffalo | 09.2016-06.2018 |
| <i>Master of Science in Computer Science</i> | |
| University of Rochester | 09.2013-06.2016 |
| <i>Master of Science in Chemical Engineering</i> | |
| Beijing Technology and Business University | 09.2006-07.2010 |
| <i>Bachelor of Engineering, majored in Applied Chemistry</i> | |

Skills

programming languages: *Java, Python, C++, MATLAB, SQL*

Courses

Data structure, database system, introduction of machine learning, data mining

Projects

Build Query Evaluator

- *Parse SQL queries by using JSQLParser and give a response.*
- *With the memory limitation, use External Merge Sort Algorithm for the sort operator and group-by operator.*
- *Optimize the implementation to support join algorithms: Sort-Merge Join and 1-Pass Hash Join.*

Clustering Algorithms

- *Implement three clustering algorithms: K-means, Hierarchical Agglomerative clustering with Single Link (Min) and Density-Based clustering, find clusters of given datasets and validate the clustering results.*
- *Implement MapReduce K-means and compare the clustering result with non-parallel K-means on the given datasets.*

Classification Algorithms

- *For given datasets, implement classification algorithms: Nearest Neighbor, Decision Tree, Naïve Bayes, Random Forests and Boosting which are based on my own implementation of Decision Tree.*
- *Adopt 10-fold Cross Validation to evaluate the performance of all methods on the provided datasets in terms of Accuracy, Precision, Recall, and F-1 measure.*

Experience

| | |
|--|------------------------|
| Beijing International Engineering Consulting Co., Ltd | 09.2010-07.2013 |
| Consultant <i>in the new energy division</i> | |
| <ul style="list-style-type: none">• <i>Collected the latest development information in the fields of Medicine, Chemical Engineering and Low carbon</i>• <i>Wrote the management report and gave advices to the following executive division</i> | |