Penghe **Liu**

Software Development Engineer

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Education

Institute of Computing Technology Chinese Academy of Sciences   Beijing, China

Master Degree in Computer Science and Engineering   Sep, 2014–Present

Huazhong University of Science and Technology   Wuhan, China

Bachelor Degree in Software Engineering   Sep, 2010–June, 2014

Experience

A Reasoning and Diagnosis System for Intelligent Medical   Mar, 2016-Present

- Designed and implemented a reasoning and diagnosis model based on the knowledge graph and Naïve Bayes.
- Wrote lots of regular expressions used for the automatic extraction of clinic cases and the automatic construction of knowledge graph.
- Designed and implemented a spelling corrector for medical specialized vocabulary based on the Naïve Bayes and inverted index.

RainbowH-A Big Data Processing Platform   July, 2015-April, 2016

- Researched on the distributed data mining algorithms and implemented a topic discovery model based on the Map/Reduce.
- Implemented a method for the merging and deletion of small files based on Hadoop HAR.

A Search and Recommendation System for Huawei Technology Cases   Oct, 2013-Mar, 2014

- Build the user-portrait according to the user's behavior history and implemented the recommendation based on the collaborative filtering method.

A Web Used for Recording the Growing of Baby   May, 2013-July, 2013

- Learned the MVC framework, designed the database and took the main programming tasks.
- Won the 1th prize in the final evaluation.

Internship

Betterwood(Beijing)   Jan, 2015-Mar, 2015

- As an intern in data mining, I was responsible for the sentiment analysis for the hotel reviews.
- Built the sentiment word dictionary and marked the training set with the LDA topic model, then predict the emotional tendencies of users' comments.

Honors & Awards

- 2015 School Excellent Student Cadre of CAS, 5% | School Merit Student of CAS, 10%
- 2014 Freshmen Scholarship of Chinese Academy of Sciences, 15% | Outstanding Graduates of HUST, 20%
- 2013 National Scholarship, 2% | School Excellent Student Cadre of HUST, 10%
- 2012 School Merit Student of HUST, 10% | Excellent First Class Learning Scholarship, 15%
- 2011 National Encouragement scholarship, 4%

Programming

Languages: Java, Python, C/C++

Interests: Data Mining, Machine Learning, Map/Reduce

Self-evaluation

I'm positive and optimistic, and I love programming and data, hope to be a data scientist.