Penghe Liu

Software Development Engineer

**Tel: 15652967512 ｜Email: liupenghe@ict.ac.cn**

**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.