

# Liu Bin

DATA MINING · BIG DATA EXPLORER

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“Stay curious, stay passionate, life is a huge game, never cease to code and explore”

## Education

### Shanghai Jiao Tong University

INSTITUTE ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING

- Master Degree in Integrated Circuits

Shanghai, China

Sep. 2015-Present

### Shanghai Jiao Tong University

INSTITUTE OF ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING

- Bachelor Degree in Micro-Electronics

Shanghai, China

Sep. 2011-July. 2015

## Skills

- Proficient: Java, Python, Data Structure, sklearn, Numpy, Pandas, HBase, Hadoop, Linux
- Familiar: C/C++, Operating System, Spark, Scala, Shell, SQL
- Basic: GitHub/SVN, Visual Studio, Vim, Android Studio, IntelliJ IDEA, Eclipse, Latex
- Language: CET6 530

## Experience

### PingAn Technology | Data Mining Group of Big Data

DATA MINING ENGINEER

- Used Hive to obtain data of insurance salor of PingAn, train SVM, GBDT, Random Forest, etc to mine potential excellent saler.
- Used Hive to obtain customers' data of PingAn Bank, then developed a collaborative filter algorithm to recommend financial products for customers. Studied how to solve the cold start problem of collaborative filtering algorithm
- Relevant Skills: Python, Hive, sklearn, MapReduce

Shanghai, China

Nov. 2016 - Jan. 2017

## Projects

### Research on Short Text Classification with Naive Bayes Algorithm

- Deployed LAMP environment on Ali-cloud elastic server. Then Deployed Joomla Framework on webserver
- Crawled pages of secondhand board of SJTU BBS website with crawler written in Python. Stored pages in local HBase database.
- Developed Naive Bayes algorithm with C++. Used part of text titles to train the algorithm. Analyzed accuracy of Naive Bayes algorithm. Compared classification accuracy Naive Bayes algorithm with SVM.
- Deployed crawler and model on webserver. Used Android App to visit server. Transfer classified data in JSON format to Android App.
- Relevant Skills: Python, Java, C++, Crawler, HBase, Naive Bayes algorithm, SVM, LAMP, App Develop

Shanghai, China

Sep. 2015 - Jun. 2016

### Take out Food Ranking Website Develop

- Crawled raw pages of Eleme, Meituan and Baidu Take Out around SJTU and stored all raw pages into HBase
- Wrote MapReduce program to extract information like food name, sales, price and so on. Then used <Key, Value> structure of MapReduce to rank.
- Uploaded results of ranking to Ali-cloud server. Developed webpages with PHP to display ranking results.
- Used statistical method and Linear regression method, etc to analyze factors' influence like discount, freight fee, price and positions in website and so on on sales.
- Relevant Skills: Java, MapReduce, HBase, sklearn, Numpy, Pandas, website develop

Shanghai, China

Sep. 2015 - Jun. 2016

### Research of Applications of Big Data Analyzation Technology on Status

#### Estimation of Power Transmission Equipment

- Used local PC and VM to deploy Hadoop cluster. Deployed HBase on top of Hadoop.
- Constructed data model to store complex data of State Grid. The Model supports JOIN operation, which HBase doesn't support. Use secondary index method to support transactions of State Grid.
- Published an academic paper A Versatile Event-Driven Data Model in HBase for Multi-Source Data of Power Grid
- Relevant Skills: Java, Hadoop, HBase, Data Model, Secondary Index, Transaction Oriented Program

Shanghai, China

Sep. 2015 - Present

## Honors & Awards

### SJTU

- 2015 **3rd Place in Person, 1st Place in Team**, New Cup Swim Competition
- 2015 **Outstanding Graduates**, SJTU
- 2014 **National Inspirational Scholarship**, SJTU
- 2012 **Grand Prize of Wenzhi Cup Essay Contest**, SJTU

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