

# FENGGUO TIAN

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## Web:

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<https://frankyyyt.github.io/>

## OBJECTIVE

Actively seeking for the full-time job of software engineering or QA.

I am an entry-level but Self-Motivated and high passionate software engineer.

I had done a list of projects covering several topics: Big-data, Data mining, Machine Learning, Web Application, Mobile Application and also have Strong Database management.

## SKILLS

Java, Hadoop, Python, AWS, HTML, MySQL, PHP, Apache Server, Solr, Eclipse, Tomcat, C/C++, JavaScript, Android Studio, Linux/Unix, MATLAB, Sublime, XML, MVC

## WORK EXPERIENCE

**SOFTWARE ENGINEER.** Xingxinda Equipment Sale Co. China. 5 - 8, 2015

- Built the website and implemented the 'Recommendation', 'Chat', 'web statistics' and 'manage' functions.
- **Using Hadoop** to setup the **Distributed Data Center** and process high throughput query.
- Built a KNN model using Java and MySQL by combining Web Statistics and Text Mining to find popular products with 500 MB JSON file and Significantly increased the hit rate of recommendations.

**TEACHING ASSISTANT.** University at Buffalo, SUNY. 2014.8 - 2015.5

## EDUCATION

**M.S. IN COMPUTER SCIENCE AND ENGINEERING.** 2015.5-2016.9.

**GPA: 3.5/4.0.** University at Buffalo, State University of New York

**M.S. IN ELECTRICAL ENGINEERING.** 2013.8-2015.5.

**GPA: 3.7/4.0.** University at Buffalo, State University of New York

**B.ENG. IN ELECTRICAL ENGINEERING.** 2009.9-2013.7.

**GPA: 3.2/4.0. (80/100).** Northwest A&F University, China

## PROJECT EXPERIENCE

- 1. Built a HealthCare Data Mining and Recommendation System.** (Java, AWS, MySQL, Machine learning) Spring. 2016
  - A data pipeline using **Twitter4J** and Nutch to crawl the webs and twitter,
  - A **KNN** predictive model from the professional data to classify the tweets.
  - A **recommendation system** as data center to rank and feed the personalized advises and news based on user's profiles and feedbacks. After the training stage, the accuracy was improved to 65%.
- 2. Built a Social Media Data Mining Search Engine.** (Java, AWS, MySQL, Solr, PHP, JS) Fall. 2015
  - Implemented the Multilingual Retrieval, Content Tagging, Faceted Search, Cross-document analytics and Semantic search by applying the IR theory on the clawed 100 MB tweets.
  - Applied the **Alchemy API**, **gossipy data model** and **Apache Solr** to study a topic trend and verify the data model with dynamic graphics, the performance was excellent.
- 3. Implemented a Dynamo-style distributed data storage system in an Android App (Java)** Spring. 2016
  - Implemented three main pieces of Dynamo: Partitioning, Quorum Replication and Failure handling and used consistent hashing to route P2P network to guarantee the CAP.
  - Built the multithreaded network following TCP/UDP to support concurrent operations (insert/delete/query) and provide ACID using java socket, synchronized method and atomic data type.