Fengguo Tian

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EDUCATION

M.S. in **Computer Science and Eng**. <u>**GPA**: **3.5/4.0.**</u> 2015.5-2016.9. University at Buffalo, State University of New York

M.S. in **Electrical Engineering**   <u>**GPA: 3.7/4.0.**</u> 2013.8-2015.5. University at Buffalo, State University of New York

B.Eng. in Electrical Engineering   <u>**GPA: 3.2/4.0** (80/100).</u>   2009.9-2013.7. Northwest A&F University, China

Courses List: Algorithms Analysis & Design, Distributed Systems, Machine Learning, Information Retrieval, Advanced Information Retrieval, Computer Security, Software Engineering and so on.

TECHNICAL SKILLS

Expertise in **Java**; Apache HTTP Server/Solr/**Tomcat/Hadoop**, **Python**, Eclipse, **AWS**, HTML, PHP, MySQL. C/C++, JavaScript, Open Source, Android Studio, Linux/Unix, MATLAB, Sublime, IPython, XML, MVC.

Work Experience

1. Software Engineer - Big Data (Java)   Xingxinda Equipment Sale Co.Ltd   China; 5 - 8, 2015

o   Implemented the 'Recommendation', 'Chat' functions, 'web statistics' and 'manage' functions.

o   **Using Hadoop** to setup the **Distributed Data Center** and process high throughput query.

o   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.

2. Teaching Assistant   University at Buffalo, State University of New York.   2014,8 - 2015,5

PROJECTS:

1. **Built a** HealthCare **Data Mining and Recommendation** System (**Java**, **AWS**, MySQL)   2016

o   A data pipeline using **Twitte4J** and Nutch to crawl 2000 websites and 500 MB tweets,

o   A **KNN** predictive model built from the professional data model to classify the 1Million tweets.

o   **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 & Retrieval** System (**Java**, **AWS**, MySQL, Solr, PHP, JS)   2015

o   Built a social media data mining website by implementing the Multilingual Retrieval, Content Tagging, Faceted Search, Cross-document analytics and Semantic search using the clawed 100 MB tweets.

o   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**); 2016

o   Implemented three main pieces of Dynamo: Partitioning, Quorum Replication and Failure handling

and used consistent hashing to route P2P network to guarantee the CAP.

o   Built the multithreaded network following TCP/UDP to support concurrent operations (insert/delete/query) and provided ACID and linearizability using java socket, synchronized method and atomic data type.

4. **Implemented Neural Networks** Handwritten Digits Classification (**Python**, **Machine Learning**).

o   Implemented a Multilayer Perceptron Neural Network and Logistic Regression, the accuracy was 99%.