Fengguo Tian

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EDUCATION

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

M.S. in Electrical Engineering GPA: 3.7/4.0. 2013.8-2015.5. University at Buffalo, State University of New York B.Eng. in Electrical Engineering GPA: 3.2/4.0. (80/100). 2009.9-2013.7. Northwest A&F University, China

TECHNICAL SKILLS

Expertise in **Java**; **Tomcat, Hadoop, Python**, **AWS**, HTML, MySQL, PHP, Apache HTTP Server, Solr, Eclipse, 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 Built the website and implemented the 'Recommendation', 'Chat', 'web statistics' and 'manage' functions.
- o 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.
- **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.
- 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) 2015
- o 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); 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%.