

Fengguo Tian

fgtian4work@gmail.com

(716)-986-3166

Santa Clara, CA 95051

LinkedIn: <https://www.linkedin.com/in/fengguo-tian-8994425a> Web: <http://fgtian4work.wixsite.com/fengguotian>

EDUCATION

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

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

B.Eng. in Electrical Engineering **Northwest A&F University — Xi'an, China.** **2009.9-2013.7**
GPA: 80/100 (3.2/4.0).

Teaching Assistant **University at Buffalo, State University of New York.** **2014,8-2015,5**
Courses List: Algorithms Analysis & Design, Distributed Systems, Machine Learning, Information Retrieval, Advanced Information Retrieval, Computer Security, Software Engineering and so on.

INTERNSHIP and PROJECTS:

- 1. Xingxinda Equipment Sale Co.Ltd Software Engineer- Big Data (Java); China; 2015**
 - Implemented the 'Recommendation', 'Chat' functions, '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 recommendation.
- 2. Built HealthCare Data Mining and Recommendation System (Java, AWS, MySQL) 2016**
 - A data pipeline using **Twitter4J** and Nutch to crawl 2000 websites and 1Million tweets, a **KNN** machine learning predictive 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 is improved to 65%!
- 3. Built a Social Media Data Mining & Retrieval System (Java, AWS, MySQL, Solr, PHP, JS) 2015**
 - Built a social media data mining website on AWS by implementing the Multilingual Retrieval, Content Tagging, Faceted Search, Cross-document analytics and Semantic search using the clawed 100 MB tweets.
 - Applied the **Alchemy API**, **gossipy data model** and **Apache Solr** to study a topic trend and verify the model with dynamic graphics.
- 4. Implemented Neural Networks Handwritten Digits Classification (Python, Machine Learning).**
 - Implemented a Multilayer Perceptron Neural Network and Logistic Regression to classify hand-written digit images by coding the NN theory and comparing with the result of the **SKLearn**, the accuracy is 99%.
- 5. Implemented a Dynamo-style distributed data storage system in an Android App (Java); 2016**
 - Implemented three main pieces of Dynamo: Partitioning, Quorum Replication and Failure handling based on 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 and linearizability using java socket and synchronized method and concurrent data type.

TECHNICAL SKILLS

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