Fengguo Tian

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SUMMARY Position: Software Engineer

- Background in Distributed System, Data Mining, Information retrieval, Machine Learning and Security
- 2+ years experience in object-oriented Design/programming, Testing and Debugging on cross-platforms;

<u>Courses:</u> Algorithms Analysis & Design, Distributed Systems, Machine Learning, Information Retrieval, Advanced Information Retrieval, Computer Security, Software Engineering, Knowledge Bases & Ontologies.

EDUCATION & ACADEMIC EXPERIENCE

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

M.S. in Electrical Engineering.

University at Buffalo, State University of New York (SUNY)

GPA: 3.7/4.0. 2013.8-2015.5

B.Eng. in Electrical Engineering and automation Northwest A&F University — Xi'an, China. Overall GPA: 80.08/100. 2009.9-2013.7

• **Teacher Assistant** of Signal Analysis and Transform Methods, SUNY at Buffalo, NY. **2015,1-2015,5**

• **Teacher Assistant** of Power System Engineering, SUNY at Buffalo, NY. **2014,8-2014,12**

COURSE PROJECTS:

- 1. Implement a Dynamo-style distributed data storage system in an Android App. Spring, 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.
- Build 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.
- 2. Personalized HealthCare Recommendation System (Java, AWS, MySQL) Spring, 2016
- A data pipeline using Twitte4J and Nutch to crawl 2000 websites and 1Million tweets, a KNN predictive model to classify the data.
 A personalized recommendation system as data center to communicate with users based on the profiles and feedbacks by feeding personalized advises and news with 65% accuracy!
- 3. Social Media Data Mining & Retrieval System (Java, AWS, MySQL, Apache Solr, PHP, JS) Fall, 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.
- applying the Alchemy API, gossipy data model and Apache Solr to study a topic trend and verify the model with dynamic graphics.
- 4. Implement Neural Networks Handwritten Digits Classification (Python, Machine Learning). Sp 2016
- 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 about 99%.
- 5. E-mail Forensics with DKIM & Web Security & Symmetric Key Crypto Implementation. Fall, 2015
- Using WebGoat to simulate web hacking and implementation Symmetric Key Crypto.
- Wrote C code using Fork Exec system to apply the core DKIM algorithm.

TECHNICAL SKILLS

Programming languages: Java, Python, C/C++, PHP, HTML, CSS, JavaScript, SQL.

Software: Eclipse, AWS, Apache HTTP Server/Solr/Tomcat/Hadoop, MySQL, Open Source, Visual Studio, Sublime, Android Studio, Linux, MATLAB, Simulink.