E-Mail: mg3364@nyu.edu
Website: www.maochen.org

EDUCATION

M.S., Computer Science, **New York University**, Manhattan, NY, USA (2011 to 01/2013) **GPA: 3.80/4**
B.S., Electrical Engineering, **Donghua University**, Shanghai, China (2005 to 2009)

PROFESSIONAL EXPERIENCE

Name withheld. New York, USA 11/2013 - Current
R&D Engineer
Natural Language Processing research scientist.
Developed co-referencing (singular and plural) recognizing in Semantic Role Understanding System.
Implementing Name Entity Tagger to the AI Interactive system.
Recognize and auto combine proper names.
~30% accuracy improvement on the original test dataset for 82 related topics.

ByteConsulting Inc. New York, USA 06/2013 – 09/2013
Application Developer
PhoneGap E-Market financial mobile application with REST-ful WebService provider.

NYC Department of Environment Protection - Internship New York, USA 06/2012 to 08/2012
• C#/ASP.NET Application Developer
Implemented MVP framework E-Learning System with Sharable Content Object Reference Model and created thread-safety WebService.

Industrial and Commercial Bank of China - Software Development Center Shanghai, China 06/2009 to 04/2010
• Software Development Engineer
Created JUnit test case for 3rd party's transaction systems.
Modified framework of HR platform to separate the data structure and function operations.
Java Object Oriented Design. Git Version Control.

PROJECT EXPERIENCE

• Feature Extraction Optimization for Multicore Architecture 12/2012
Concurrency Programming: Parallel feature extraction process for NLP. (Java 1.7.0)
Data level parallelism in training process (Thread Pool Model).
YourKit Profiling for parsing process.
TDD + Unit test case covered.

• Natural Language Processing: Sentence Sentimental Analysis 04/2012 to 05/2012
Supervised Machine Learning Classification System. (Java 1.6.0)
Target: Classify tweet's sentiment extracted from twitter.com into Positive, Negative or Neutral.
Approach: Maximum Entropy classifier (Grammatical Model) + Bigram (Lexical Model backup) for prediction.
Self-defined feature extraction.
F-Score: 88% (~5000 Training Samples, Cross Validation).
Website: http://www.tweetemotion.com

COMPUTER SKILLS

- Java (Proficiency), C#/ASP.NET, C/C++.
- Natural Language Processing, Pattern Matching, Regex.
- OO Design Pattern, Agile Development, TDD.
- Git, Subversion.
- Bootstrap.js, HTML, CSS, JSON, JavaScript.

GitHub

https://github.com/maochen