

## 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

**IPsoft Inc.** 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 3<sup>rd</sup> 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.

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- OO Design Pattern, Agile Development, TDD.
  - Git, Subversion.
  - Bootstrap.js, HTML, CSS, JSON, JavaScript.



## GitHub

<https://github.com/maochen>