

Ding MA

Tel: +1-(404)-398-5626

Email: cn.md.martin@gmail.com

EDUCATION

Georgia Institute of Technology 08.2013-Present

- Candidate of Master of Science in Computer Science

Peking University 09.2009-07.2013

- Bachelor of Science in Computer Science
- Core Courses: Data Structure and Algorithm, Compiler Design, Operating Systems, Mathematical Logic, Computer Architectures, Introduction to Natural Language Processing, Introduction to Database Systems.

INTERNSHIP

Sina Network Technology Co., LTD **Web Engineer** 09.2012-12.2012

- Developed and tested server programs

RESEARCH & PROJECT EXPERIENCES

Cross-Media Retrieval 03.2012-05.2013

Multimedia Information Processing Lab, Institute of Computer Science & Technology, Peking University

- Studied classic methods for cross-media retrieval tasks and information retrieval.
- Participated in building cross-media demonstration system for China National Computer Congress 2012.
- Proposed methods of cross-media retrieval on "Cross-media Retrieval by Cluster-based Correlation Analysis". The paper is accepted by 2013 IEEE International Conference on Image Processing (ICIP).

TRECVID 2012 08.2012-09.2012

Multimedia Information Processing Lab, Institute of Computer Science & Technology, Peking University

- Worked on the Known Item Search (KIS) section.
- Utilized and modified Lemur and Lucene. Processed text files; tested tools for Automatic Speech Recognition; processed High Level Visual Features.

Automatic Word Segmentation and POS Tagging for Chinese 06.2012

- Utilized and modified the Hidden Markov Model.

Construction of High-Resolution Image 05.2012-06.2012

- Processed Low-Resolution Images and transformed them into High-Resolution Images.
- Programmed according to the algorithm, tested, and implemented demonstration program.

Construction of MiniJava Compiler 09.2011-12.2011

- Constructed a compiler for MiniJava, a subset of Java.
- Performed code transformation, code optimization, register allocation, etc.

Construction of Search Engine Index for Video 07.2011-08.2011

Multimedia Information Processing Lab, Institute of Computer Science & Technology, Peking University

- Built indexes for large amount of videos.
- Modified the code of Locality Sensitive Hashing; performed experiments of dimension reduction by methods such as Random Projection.

Simulation of P2P Network 12.2010-01.2011

- Simulated posting and retrieving files on a local network.
- Designed and implemented the format of messages.

ACTIVITIES & HONORS

Second Prize in Peking University Mathematical Modeling Contest 05.2012

- Focused on Analogic Travelling Salesman Problem and Multiple Travelling Salesman Problem.
- Designed the algorithm with another teammate, wrote code and tested, finished a reporting document
- Ranked top 30% among all the teams.

Minister of Student Union, School of Electronic Engineering and Computer Science 09.2010-07.2011

- Organized EECS Cup Soccer Tournament.

Corporation Assessment in Peking University 10.2009-11.2009

- Participated in the organization of Corporation Showplace of Peking University.
- Built the website for voting.

PROGRAMMING SKILLS

- JAVA, C++, Python, JavaScript, Matlab, etc.

INTERESTS

- Piano: Passed Test Band 8 of Chinese Musicians Association.
- Soccer: Captain of EECS Men's Soccer Team; Runner-up in Peking University Cup Soccer Tournament.