+ 1 412-951-2112

5922 Nicholson,
Pittsburgh, PA, 15217

mingzhiz@cs.cmu.edu

Links

cs.cmu.edu/~mingzhiz

linkedin.com/in/mingzhizeng

github.com/immzz

Skills

Algorithm/Data Structure Design
TCP/IP Networking
Shell
Unix/Linux
AWS
Hadoop

Programming Languages

Python
Java
C#/C++
SQL
MATLAB
R
Django
HTML5/CSS3/Javascript

Awards

iGEM Asia Jamboree Gold Medal 2013
People Scholarship, Second Prize 2012
Fujitsu Scholarship (1%) 2011
National Scholarship (1%) 2010

Open Source Contributions

zhihu-scrapy : Complex crawling
DFC-Nanjing : Django based website
tile-witch : User-friendly map editor

MINGZHI (MATTHEW) ZENG

Master Candidate, Research Assistant at Carnegie Mellon University

Experience

VMware *//Software Engineer Intern* — May 2015 - Aug 2015

· Designed and developed full-stack framework for vRealize System Test Portal based on Django
· Implemented a light-weight metric collecting framework running on diversified resources based on Celery and Rabbitmq

Carnegie Mellon University *//Research Assistant* — Aug 2014 - May 2015

· Developed set expansion and clustering algorithms to boost the TREE active learning system
· **Publication:** Interactive Learning with TREE: Teachable Relation and Event Extraction System

Microsoft *//SDET Intern* — July 2013 - Oct 2013

· Reviewed test logs; fixed Billing failures in Microsoft Commerce Transaction Platform(CTP)
· Reviewed bugs; cooperated with the SDE team to verify related code check-in

Nanjing University *//Research Assistant* — May 2012 - June 2013

· Designed and implemented a fully-functioning Java-based search engine platform that crawls and retrieves posts in personal social network.
· Reranked the results according to content relevance, user intimacy and interest similarity.

Education

Carnegie Mellon University — Dec 2015

Master in Intelligent Information Systems, School of Computer Science

· **Selected Courses:** Machine Learning(Phd Level), Machine Learning for Text Mining, Search Engines, Algorithms for NLP

Nanjing University — 2010 - 2014

Bachelor in Computer Science, Department of Computer Science

· **Selected Courses:** Algorithm Design & Analysis, Introduction to Data Mining, Software Engineering

Selected Projects

Machine Learning for Large Datasets — Jan 2015 - April 2015

· Implemented large-scale ML algorithms, including Naive Bayes, Phrase Finding, SGD Logistic Regression, Approximate Pagerank, Matrix Facorization, etc.

Machine Learning for Text Mining — Jan 2015 - April 2015

· Implemented and optimized algorithms for Text Mining, including: Clustering, Pagerank, Collaborative Filtering, Pagerank, etc.

Utilizing Product Reviews to Predict Ratings for New Product — Sep 2014 - Dec 2014

· Built an LDA-based topic model from Amazon review text to improve precision in lack of reviews.

Multi-Algorithm Search Engine Framework — Aug 2014 - Dec 2014

· Built a Java-based retrieval framework that consists of Boolean, BM25, Indri retrieval algorithms.
· Handles multiple representations, query expansion, and Learning-to-Rank.

SoseaDisk: A Distributed Storage System — Oct 2013 - Dec 2013

· Built a Java-based semi-centralized framework to improve reliability by assigning Super Nodes.

Micro-kernel Operating System — Mar 2012 - June 2012

· Implemented a micro-kernel operating system with context switching, process/memory management and user program execution.