

Mingzhi(Matthew) Zeng

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA MIIS - LTI **3.64/4** *Dec. 2015*
Selected Courses: Machine Learning(Phd Level), Machine Learning for Text Mining, Search Engines
Nanjing University, Nanjing, China B.S. in Computer Science **3.80/4** *June 2014*
Selected Courses: Algorithm Design & Analysis, Introduction to Data Mining, Software Engineering

SKILLS

Fundamental: Algorithm Design, AWS, Hadoop, TCP/IP Networking, Unix/Linux
Programming: Python, Java, C++/C#, SQL, MATLAB, R, Django, HTML5, Bootstrap, Javascript, Git

INTERNSHIP EXPERIENCE

VMware May 2015 - Aug. 2015
Software Engineer Intern *Palo Alto, CA*

- Designed and developed front-end and back-end framework for vRealize System Test Portal using Django
- Implemented a light-weight data collecting framework for diversified resources using Celery and Rabbitmq
- *Voted as top 10 intern project*; framework successfully extended to another vRealize product

Microsoft July 2013 - Oct. 2013
SDET Intern *Shanghai, China*

- Reviewed and fixed Billing failures in Microsoft Commerce Transaction Platform(CTP)

RESEARCH

Teachable Relations and Event Extractor Aug. 2014 - May 2015
Advisor: Prof. Anatole Gershman

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

Intelligent Search Engine based on Social Network Analysis May 2012 - June 2013
Advisor: Prof. Junyuan Xie and Prof. Chongjun Wang

- Developed a Lucene-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.

SELECTED COURSE DESIGNS

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 Factorization, 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(ML) Sep. 2014 - Dec. 2014

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

Multi-Algorithm Search Framework(Search Engines) 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(Java Programming) Oct. 2013 - Dec 2013

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

BTOOOM Multiplayer Game(Software Engineering) Mar. 2013 - Jun 2013

- Worked as the leader of a 6-people group and built a multiplayer bomber game following Agile principles.