

## SUMMARY OF QUALIFICATIONS

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Master of Computer Science student at Rice University, quick and avid learner, with diverse development experience both in industrial and research settings. Actively seeking a software engineer intern position in summer 2017.

## EDUCATION

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**Rice University** | *Master of Computer Science* May 2018(Expected) | Houston, TX

Courses: Web Development, Graduate OOP, Algorithms, Data Mining and Statistical Learning.

**Tsinghua University** | *B.S. in Mathematics & Physics* Jun 2016 | Beijing, China

GPA of Computer Science related courses: 3.8/4.0

Courses: Big Data System(Distributed System), Introduction to Machine Learning, Data Mining, Data Structure and Algorithms, Computer Architecture, Information Management, Computer Networks, Introduction to Artificial Intelligence.

## TECHNICAL SKILLS

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**Languages:** C, C#, C++, Java, Python, Javascript, R, Matlab, HTML/CSS

**Databases:** MySQL, Oracle, SQLite, MongoDB

**Tools:** Hadoop, L<sup>A</sup>T<sub>E</sub>X, Unix/Linux

**Misc.:** Data Analysis, Statistical Inference, Machine Learning

## PROFESSIONAL EXPERIENCE

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**Microsoft Research Asia** Beijing, China

*Intern, Machine Learning Group* Nov 2015 - Jul 2016

- Extracted data for specific NLP tasks from Bing snapshots. Deployed tasks on Microsoft's internal distributed system.
- Implemented neural language models (RNN, LSTM, etc.) with Theano framework. Built c# wrapper to integrate trained models which was original Python code into a Chinese healthcare chat robot project.
- Designed an framework to understand semantical information of short text, especially queries on search engine, by incorporating external concept clusters, which improved by 7% on NDCG metric.
- Recieved certificate of “ Stars of Tomorrow“, award of excellence.

**School of Computing, National University of Singapore** Singapore

*Intern, NLP & IR Group* Jun 2015 - Sep 2015

- Built a Chrome extension called Wikifier powerd by Django to do entity-linking on discussion forum of MOOC platform.
- Analyzed Coursera courses schema and crawled them down from web by designed Scrappy crawling pipeline.
- Utilized context-based probability models and annotated data which was crawled from Coursera pages to disambiguate meaning of terms in posts. Found patterns of terms indicating entities of courses schema such as *lecture*, *video*, *slides*, *etc* , then linked post terms with their real resources automatically.

**National Key Laboratory of Intelligence, Tsinghua University** Beijing, China

*Undergraduate Research Assistant* Dec 2014 - Jun 2015

- Noted the limitations of state-of-the-art collaborative filtering based algorithms, and designed an ensemble learning framework to improve the ranking performance of recommender system by incorporating L2R models.
- Testing performance improved by 20% on MOVIES and IMDB datasets based on NDCG metric.

## SELECTED PROJECT EXPERIENCE

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**FTP Protocol** Nov 2015

- Wrote a File Transfer Protocol(FTP) by C++, based on Socket, implementing functions(put, get, cd, ls, mkdir, etc.) required by IEEE RFC 959.
- Developed client and thread-safe server end for multi-users.

**IR-light** Apr 2015

- Developed a Chinese news retrieval prototype to resolve XML syntax and search from crawled HTML/XML files.
- Implemented Chinese word segmentation function and AVL tree(Java) to store content data.

**Campus Regulator** Aug 2014

- Developed a full-stack web app to handle daily regulation tasks on campus, including student management, class enrollment, news feed, email notification, etc.
- Wrote front-end based on Bootstrap and JQuery, and back-end based on Spring framework. Designed database schema to implement interaction between client and server . Created thread pool to handle high concurrency issues.