Runwei Qiang

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Education Background

2012.09 - 2015.07	Master Degree in Computer Applied Technology, Peking University
2008.09 - 2012.06	Bachelor Degree in Computer Science, Nanjing University **(GPA Rank: 6/156)**

Program Experience

2015.02 – 2015.07　**Algorithm Engineer Intern at Yidian Inc.**　　　　　**C++, PHP, MongoDB, Hadoop**

- Proposed several effective features using word embedding for news similarity task.
- Improved the efficiency of the news similarity service using SSE and multi-threading techniques.
- Built a feature monitoring website for the head news recommender system.

2014.02 – 2014.09　**Research Intern at Microsoft Research (MSR)**　　　　　　　**C++, Perl**

- Built a deep neural network framework to obtain word embedding which provides important information to benefit relevance ranking task.
- Designed and built a knowledge-powered deep neural network framework to leverage text knowledge to address the OOV problem in learning word embedding.
- Built a learning to rank framework to combine different word embedding to improve retrieval performance.

2011.07 – 2015.07　**Peking University, Microblog Real-time Search**　　　　**C++, Perl, Lemur, Ruby**

- Participated in TREC 2011 Challenge on Microblog Track, and built a real-time search system based on language model in the microblogosphere. Our system achieved the 4th prize (over 59 teams) in TREC 2011.
- Participated in Microblog Track 2012, and built a Ranking FM framework to estimate the interactions between relevance features. Our learning to rank based system achieved the 4th prize (over 33 teams).
- Proposed and built an adaptive language modeling system for microblog retrieval, which expanded query with feedback entity model.
- Led a team to build systems for temporally-anchored ad hoc search and tweet timeline generation (TTG) task in Microblog Track 2014. Our systems achieved the 1st prize over 23 teams.

2012.07 - 2012.10　**Software Development Engineer Intern at Hulu**　　　　　　**Ruby, Git, ROR**

- Worked in the web audience team. Designed site test cases for Hulu 2.0 with *Rspec* framework.
- Designed and developed RspecDoc with *Ruby* to help manage test cases.　Engaged in the development of Rats, a report system for testing cases.

2010.09 - 2011.06　**Nanjing University, General Course Website**　　　　　**PHP, MySQL, JQuery**

- Built a general course website that combines the advantages of SNS and CMS, so that students can access the academic resources more conveniently. (*http://ise.nju.edu.cn/njusns*)

Selected Publications

[1] Feifan Fan, **Runwei Qiang**, Chao Lv and Jianwu Yang, "Improving Microblog Retrieval with Feedback Entity Model", CIKM 2015. Accepted as full paper **(co-first author)**.

[2] **Runwei Qiang**, Feng Liang and Jianwu Yang, "Exploiting Ranking Factorization Machines for Microblog Retrieval", CIKM 2013.

[3] **Runwei Qiang**, Yue Fei, Yihong Hong and Jianwu Yang, "PKU_ICST at TREC 2013 Microblog Track", TREC 2013.

[4] Feng Liang, **Runwei Qiang**, and Jianwu Yang, "Exploiting Real-Time Information Retrieval in the Microblogosphere", JCDL 2012.

Selected Awards

2013	WUSI Scholarship of Peking University	**2012**	Excellent Undergraduate Thesis Award of NJU
2011	National Scholarship (top 2% students)	**2010**	First Prize in China Undergraduate Mathematical Contest in Modeling
2009	Excellent Student of Nanjing University	**2009, 2010**	PINGAN Motivational Scholarship

Skills

- **Programming Language**: C/C++, Perl, Ruby, Java, PHP
- **Operating System**: Windows, Linux (Ubuntu, CentOS)
- **Database:** MySQL, MongoDB, SQLServer
- **Capable to build highly-scalable performant solutions**
- **Web Development**: Code Igniter, HTML/CSS, JQuery, Bootstrap
- **Data Mining Tools**: Lemur/Indri, SVM^{rank}, Weka, LibLinear
- **Distributed System**: Hadoop
- **Algorithm:** Machine Learning Algorithms