

Yexi Jiang

Resume

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Homepage: <http://users.cis.fiu.edu/~yjian004>,

GitHub: <https://github.com/yxjiang>

Summary

Passionate software developer and applied researcher with hands-on skills on data mining/machine learning algorithm development and research. Considerable R&D experience at the world's leading companies and open source community like IBM, Microsoft, and Apache Software Foundation. More than 10 research paper published at recognized international conferences and journals. Strong eagerness to work with talented and energetic people on promising projects.

Experience

Open Source Projects

- Apache Software Foundation **Committer, Apache Hama: a BSP computing framework on top of Hadoop.**
- Working on the distributed machine learning package, including the design and implementation of distributed multilayer perceptron, linear regression, logistic regression, and auto-encoder. **[GitHub Link]**
 - Bug fixing and existing feature improvement.

Internships

- Summer of 2011, 2012, 2013 **Intern, IBM T.J Watson Research Center, New York, NY, USA.**
- Participated in the design and implementation of an interactive service retrieval system called *Cloud Services Marketplace* to facilitate the cloud services acquisition.
 - Designed and implemented a time-series prediction algorithm to help the cloud capacity planning and reduce the VM fulfillment time of IBM's Smart Cloud Enterprise from the perspective of resource prediction.
 - Participated in the design and implementation of an intelligent tool that leverages data mining techniques to improve the efficiency for both the customers and service providers during server configuration.
- 03/2009-07/2009 **Intern, Microsoft Research, Beijing, China.**
- Designed and implemented a distributed frequent sequential mining algorithm to discover the users' popular operation sequences from the log of Office software to help the UI designers ameliorate the layout of the next version of Office.

Academic

- 08/2010-Now **Research Assistant, Knowledge Discovery Research Group, FIU, Miami, FL, USA.**
- Designing and implementing a distributed monitoring system to conduct the continuous monitoring over the computer clusters. **[GitHub Link]**
 - Participating in the design and implementation of FIU-Miner: An integrated and user-friendly data mining system under distributed environment. **[Web Page Link]**
 - Other projects related to temporal data mining.

Programming Skills

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|------------------------|---|-------|---|
| Languages | Java (proficient), Python (familiar), Javascript (familiar), C/C++ (familiar), Scala (prior experience) | DB | MySQL, HDFS, MongoDB, Hive, PostgreSQL, DB2 |
| Frameworks & Libraries | Apache Hama, Apache Hadoop, Apache Hive, ActiveMQ, Storm | Tools | Git, SVN, Maven |

Selected Publications (15 publications in total)

1. **Yexi Jiang**, Chang-shing Perng, Tao Li. "META: Multi-resolution Framework for Event Summarization", *SDM International Conference on Data Mining (SDM)*, 2014.
2. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Cloud Analytics for Capacity Planning and Instant VM Provisioning", *IEEE Transactions on Network and Service Management (TNSM)*, 2013.
3. Chunqiu Zeng, **Yexi Jiang**, Li Zhen, Jingxuan Li, Lei Li, Hongtai Li, Chao Shen, Wubai Zhou, Tao Li, Bing Duan, Ming Lei, Pengnian Wang. "FIU-Miner: A Fast, Integrated, and User-Friendly System for Data Mining in Distributed Environment". *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD Demo)*, 2013.
4. Liang Tang, Tao Li, **Yexi Jiang** Zhiyuan Chen. "Dynamic Query Forms for Database Queries", *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2013.
5. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "Self-adaptive Cloud Capacity Planning". *International Conference on Service Computing (SCC)*, 2012.
6. **Yexi Jiang**, Chang-shing Perng, Tao Li, Rong Chang. "ASAP: A Self-Adaptive Prediction System for Instant Cloud Resource Demand Provisioning". *IEEE International Conference on Data Mining (ICDM)*, 2011.
7. **Yexi Jiang**, Chang-shing Perng, Tao Li. "Natural Event Summarization". *ACM Conference on Information and Knowledge Management (CIKM)*, 2011.

Patents

1. *System and Method for Constructing Semantic Dialog Driven Services and Products Discovery*. With Alla Segal, Anca Sailer, Charles Perng, Frank Schaffa, Ignacio Silva-Lepe, Jim Laredo, Tom Chefalas, Tao Tao. **Filed**.
2. *System and Method for Complex Service Network Ranking and Clustering*. With Alla Segal, Anca Sailer, Charles Perng, Frank Schaffa, Ignacio Silva-Lepe, Jim Laredo, Tom Chefalas, Tao Tao, Yang Zhou. **Filed**.
3. *System and Method for Cloud Provisioning Accelerator*. With Charles Perng, Rong Chang, Hidayatullah Shaikh, Edward So, Tao Tao, Meir Laker. **US Patent 20,130,139,152**.

Selected Honors and Awards

IBM Fellowship for excellent Chinese student (80 students all over China)
Excellent award of 'IBM PureXML Database Engineer' contest (Student group)
Excellent award of 'IBM CUP' final competition

Education

- 2010-Now **Ph.D. in Computer Science**, *Florida International University*, Miami, FL, USA.
Research Area: Temporal Data Mining, Distributed Data Mining, GPA: 3.9
- 2010 **B.S and M.S. in Computer Science**, *Sichuan University*, Chengdu, Sichuan, China.
Research Area: Data Mining, GPA: 3.3