

Yexi Jiang

Resume

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Immigration Status

Permanent Resident of USA

Summary

A passionate applied researcher and software developer with hands-on skills on data mining/machine learning algorithm development and research. Strong eagerness to work with talented and energetic people on promising projects.

Experience

Industrial Experience

05/2015 **Research Scientist, Facebook Inc.**, Menlo Park, CA, USA.

- Feed and Story Integrity
 - Tech leading a team of 4 engineers on Facebook story content moderation. Building the ML-based system to detect, measure, and enforce the violating (e.g. regulated goods, bullying) and low-quality (e.g. clickbait, ads farm) contents appeared in stories.
 - Tech led a team of 4 engineers on leveraging ML to tackle fake engagement on Facebook contents, designed and implemented the system for measurement, detection, and enforcement. Successfully reduced xx% of active accounts manipulated for fake engagement and reduced the impressions of the benefited contents by xxxM/day.
 - For both projects, worked with XFN and partner teams on problem formulation, road-mapping, system designing, and hold regular 1 on 1 with the junior engineers to make sure they are not blocked.
- User Growth (People You May Know)
 - Joined the team and then tech led the friend recommendation (PYMK) team after the 2nd year. The improvements on the service has increased Facebook's Monthly Active People (MAP) by xM/year through various optimization efforts, including model selection, model serving, data logging, training data preparing, feature engineering, and candidate retrieval.
 - Led the efforts of system stability improvement. Standardized and simplified the on-call/debugging guideline, and consolidated the monitoring of the system.
 - Major improvement of the friend recommendation system backend, increased the effectiveness of feature logging by 20+ Times.

Summer of 2014 **Intern, News Feed Ranking team, Facebook Inc.**, Menlo Park, CA, USA.

- Interned at the news feed ranking team. Designed and implemented the pipeline as well as the related analytic tools for personalized News Feed ranking at Internet scale, increased the AUC of the prediction by 0.x%.

Summer of 2011, 2012, NY, USA. **Intern, Service Management team, IBM T.J. Watson Research Center**, New York, NY, USA.

2013 ○ Participated in the design and implementation of a prototype system called *Cloud Service Marketplace*, an RDF knowledge graph based interactive system that facilitates the cloud services acquisition. This prototype evolved into IBM 2013 Global Technology Outlook project "Scalable Services Ecosystem".

○ 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 by 80+%.

○ Participated in the design and implementation of a tool that leverages data mining techniques to improve the efficiency for both the customers and service providers during server configuration.

03/2009- **Intern, Data Intelligence and Tools team, Microsoft Research**, Beijing, China.

07/2009 ○ 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.

Open Source Projects

Apache **PMC Member, Apache Hama: a BSP computing framework for distributed computing.**
Software ○ Working on the distributed machine learning package, including the design and implementation
Foundation of distributed multilayer perceptron, linear regression, logistic regression, and auto-encoder.
[GitHub Link]

Publication

- Program committee member and reviewer of the top academic conferences/journals in the area of data science, such as: *ACM Conference on Knowledge Discovery and Data Mining (SIGKDD)*, *International Conference on Data Mining (ICDM)*, *ACM Conference on Recommender Systems (RecSys)*, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, *ACM Transactions on Knowledge Discovery from Data (TKDD)*, *Knowledge and Information System (KAIS)*, *Information Sciences*, *IEEE Transactions on Cybernetics*, *Data and Knowledge Engineering (DKE)*, etc.
- Published 20+ papers at the top journals/conferences in the area of data science with 500+ citations, such as: *ACM Conference on Knowledge Discovery and Data Mining (SIGKDD)*, *International Conference on Data Mining (ICDM)*, *ACM Conference on Recommender Systems (RecSys)*, *ACM Conference on Information Retrieval (SIGIR)*, *ACM Conference on Information and Knowledge Management (CIKM)*, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, *ACM Transactions on Intelligent Systems and Technology (TIST)*, etc. (Details at: <https://goo.gl/4dRHrb>)
- Published 3 patents during the internships at IBM,

Education

2015 **Ph.D. in Computer Science**, *Florida International University*, Miami, FL, USA.
Research Area: Temporal Data Mining, Distributed Data Mining

2010 **B.S and M.S. in Computer Science**, *Sichuan University*, Chengdu, Sichuan, China.
Research Area: Data Mining