

Taiyuan Zhang

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Education

Carnegie Mellon University Pittsburgh, PA Dec. 2015(Expected)
Master of Computational Data Science(*Analytic*), School of Computer Science
• Selected Courses: Machine Learning, Search Engine, Cloud Computing, Multimedia DB & Data Mining
Tsinghua University Beijing, China Jul. 2014
Bachelor of Computer Software, School of Software

Experience

Hulu Beijing, China Jul.2013 – Oct.2013
Full-stack web developer intern
• Built a real-time, online simulation and monitor tool (Simly) for product managers, researchers and content editors in Hulu
• Processed big data (Hulu users' daily behavior, the rate or predicted preference of users towards shows/movies, models with tens of millions of parameters), indexed in database. Implemented analytical query APIs
SigmaLove(Qi-Ming-He-Xin) LLC Beijing, China Oct. 2013 – May. 2014
Core developer(member of earliest founder team)
• Applied statistical analysis on collected student data, indexed result in MongoDB and implemented different web APIs to support data query
• Refactored previous system to event-driven style with Celery to improve system robustness
• Developed complex webapps with AngularJS and jQuery

Independent Intelligent System Projects

Non-negative Matrix Factorization based Transfer Learning Feb. 2014 – Jun. 2014
• Designed and implemented a program that can automatically download news documents with categories through RSS from major news websites
• Developed a program to automatically extract content, title, time from heterogeneous Chinese news webpages
• Designed and implemented a new transfer learning algorithm based on NMF. The algorithm achieves better results in different transfer learning datasets (including a text dataset collected as described above) than state-of-art common subspace learning methods
THSS Face Search Engine Dec. 2013 – Feb. 2014
• Implemented face detection, face feature extraction with OpenCV in C++. Integrated the algorithm with search framework through JNI
• Developed a image-to-images search framework with Java and MongoDB based on the idea of TF-IDF and soft-quantization

Technical Skills

- Python, Javascript, Java, C/C++. Matlab
- Data processing and analysis. SQL & NoSQL database

Selected Honors and Awards

- Outstanding Study Scholarship, Tsinghua University Sep. 2013
- Fund Scholarship, Vector and William Fung Foundation Jan. 2013