Yitong Zhou

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EDUCATION

Carnegie Mellon University, Heinz College, Pittsburgh, PA   Dec 2013(expected)
Master of Information Systems Management   GPA: 3.94/4.0

Renmin University of China, Beijing, China   Jun 2012
Bachelor of Engineering, Information Systems Management   GPA: 3.91/4.0

WORKING EXPERIENCE

RedBeacon Inc, Foster City, CA
Software Engineer Intern   May 2013-Aug 2013
- Developed a service recommendation algorithm as a backend remote process server
- Applied k-means clustering with independent component analysis (ICA) to automatically identify different categories of service tasks
- Frontend and backend bug fixing, unit test, and selenium test within Django/ backbone.js
- Traffic analysis, and customer ticket analysis with text clustering and topics ranking

GE Healthcare, Beijing, China
IT Intern, Sales Ordering System ePOP   Sep 2011-Mar 2012
- Verified and coordinated enhancement project requests for ePOP
- Reviewed ePOP source codes (C#, .NET) and recognized bugs in interest calculation
- Raised a complete solution for PDF contract auto-generation (HTML2PDF converter + XML Template + Version Control & CRUD strategies), replaced manually typed contracts, and accelerated processing time from 2 hours to 15 minutes per contract

PROJECT EXPERIENCE

Cosmetic Review Website   Jan 2013-Present
- Adopted Bootstrap/backbone.js/Node.js/MongoDB/Redis/Nginx as basic frameworks
- Practiced minimalist UI design with flexible JSON API
- Currently work on recommendation algorithms & real-time socket.io messaging

Independent Study in Statistical Learning Methods for Recommendation   Sep 2013-Present
- Reviewed popular methods of recommendation system including Latent Semantic Indexing (LSI), Latent Dirichlet Allocation (LDA), Nonnegative Matrix Factorization (NMF) and etc.
- Aim to propose novel methods in NMF for performance improvement

Microblog Filtering (Information Retrieval Lab Project, Java)   Feb 2013-May 2013
- Applied Pseudo Relevance Feedback as core retrieval methods
- Worked with clusters and speeded up computation through multiprocess calling
- Introduced multi-centroids PRF and significantly boosted Recall with few loss of Precision
- Ranked #2 compared to official TREC 2012 results in the metric of T11SU

Search Engine & Web Mining CMU Course Project (Java/C++)   Sep 2012-Dec 2012
- Implemented core prototypes of Boolean, BM25, and Language retrieval models in Java
- Applied flexible object-oriented design patterns to guarantee a continuous system evolution
- Developed a kNN collaborative filtering system with Netflix Prize dataset

Campus Event Sharing System (Rails)   Mar 2012-Jul 2012
- Self-motivated and independently developed the full stack of the system
- Adapted Ruby on Rails, jQuery/Unobtrusive JavaScript for agile development
- Robust backend component design with interactive interactive jQuery/ HTML5 UI

SKILLS

Framework: Ruby/Rails, Java/J2EE, Python/Django, Node.js
Front-end: jQuery, Backbone, HTML5/CSS3
Courses: machine learning, data mining, algorithm analysis, distributed system, search engine etc.