

Liuyin Huang

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OBJECTIVE

- Passionate, inquisitive computer science student, with a strong foundation. Seeking to leverage solid skills in collaboration, communication, and development as a SDE summer Intern.

EDUCATION

- **University of Southern California**, Los Angeles, CA *Aug. 2017 – Present*
Master of Science in Computer Science **Major GPA: 3.85**
- **Central China Normal University**, Wuhan, China *Sept. 2013 – June. 2017*
Bachelor of Engineering in Computer Science **Major GPA: 3.92**

RESEARCH EXPERIENCE

- **Study and Realization of Movie Recommender System Based on Hybrid Recommendation Algorithm** (Excellent Graduation Thesis) *Sept. 2016 – May. 2017*
www.liuyin.site:8080
 - Improved prediction accuracy of SVD-type model by infusing demographic features.
 - Blended multiple recommendation models by employing different strategies such as GBDT, AdaBoost and RF, and reduced RMSE from 1.1088 to 0.8427 on MovieLens-1M dataset.
 - Formulated specific system design pertaining to movie recommender system and realized it based on hybrid recommendation model and J2EE SSH framework. Ratings were obtained from MovieLens and detailed movie information was collected from TMDB.
- **Polygon Matching Algorithm** *Feb. 2016 – Sept. 2016*
Co-wrote a paper proposing polygon matching by using centroid distance sequence in polar grid, and formulating how to apply normalized polygon area to speed up searching progress.

CONFERENCES & PUBLICATIONS:

- **Fu, Bitao and Huang, Liuyin.** “Polygon Matching Using Centroid Distance Sequence in Polar Grid”. The 2nd IEEE International Conference on Computer and Communications (ICCC). Sichuan University, Oct 14-17, 2016 (proceedings indexed by EI)

PROJECTS

- **Stock Market Search (Web and Android)** *Web Technologies in USC, Fall 2017*
Developed stock searching website and Android app to query stock details including its quotes, indicators and news, and visualized these data as charts by HighCharts. Built frontend with Angular4 and backend with Node.js. App is deployed on AWS. (<https://tinyurl.com/ybz4tcch>)
- **A Simplified Search Engine** *Information Retrieval in CCNU, Fall 2015*
Implemented a simplified version of search engine by means of Heritrix to crawl web pages, je-analysis to segment Chinese words and Lucene to construct inverted index.
- **A C/S Model Chat Application Based on TCP** *Database Design in CCNU, Fall 2015*
Led a 4-people team developing a windows chatting program using C#, SQL Server and CSkin. Private chat, group chat and offline message were implemented.
- **Internship at ChinaSoft International Company** *June. 2016 – July. 2016*
Worked at back-end development of a Real Estate website's administrator module that could manage user and house data using Struts2, Spring, Hibernate and MySQL.

SKILLS

- **Programming Languages:** Java, Python, C#, C, C++, JavaScript, PHP, SQL
- **Software & Framework:** MySQL, MATLAB, Git, Spring, Hibernate, Angular4, Hadoop, AWS