# Liuyin Huang

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## OBJECTIVE

- Seeking a 2018 summer internship that will utilize my software skills

## EDUCATION

- **University of Southern California**, Los Angeles, CA          *Aug. 2017 – Present*
  Master of Science in Computer Science          **Major GPA:** N/A

- **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** *Sept. 2016 – May. 2017*
  **Hybrid Recommendation Algorithm** (Excellent Graduation Thesis**)**   *www.liuyin.site:8080*
  (1) Improved prediction accuracy of SVD-type model by infusing demographic features.
  (2) Took a further step to blend multiple recommendation models by employing different strategies such as GBDT, AdaBoost and RF, and achieved an effect better than any single model.
  (3) Formulated specific system design pertaining to movie recommender system and realizing it based on hybrid recommendation algorithm by using J2EE SSH framework. Rating data set was obtained from MovieLens and detailed movie information was collected by calling TMDB API.
- **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 the 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

- **A Simplified Intelligent Input Method**          *NLP in CCNU, Spring 2016*
  Input Chinese Pinyin letters and get corresponding phrases or sentences sorted by probability calculated by 2-gram model.
- **A Simplified Search Engine**          *Information Retrieval in CCNU, Fall 2015*
  Realized 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 Using TCP**          *Database Design in CCNU, Fall 2015*
  Led a 4-people team developing a windows chatting program based on three-tier architecture. 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.

## SKILLS:

- **Programming languages:** Java, Python, C#, C, C++, JavaScript, PHP, SQL
- **Software & Framework:** Eclipse, MySQL, SQL Server, Android Studio, ASP.NET, Git, AWS