

# Liuying Huang

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## EDUCATION:

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**Central China Normal University**, Wuhan, China Sept. 2013 – Present

**Majors:** Computer Science **Major GPA:** 3.92 (6 semesters, rank 2 out of 96)

**Relevant Courses:**

- Linear Algebra, Discrete Mathematics, Probability and Mathematical Statistics,
- Data Structure, Algorithm, Digital Logic, Software Engineering, Computer Networks,
- Operating System, Computer Organization, Compilers Principles, Database Principles,
- Natural Language Processing, Information Retrieval, Information Security, AI

## HONORS & AWARDS:

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- 1st prize in “2015 Mathematical Modelling Contest in Central China Provinces”
- 3rd prize in the 11th Challenging Cup Contest held by Central China Normal University in 2015
- Outstanding Student Scholarship for three consecutive years (2014, 2015, 2016, the highest rank of scholarship granted by CCNU)
- Excellent Student of CCNU for three consecutive years (2014, 2015, 2016)
- Learned and Accomplished Student (Bo Ya Student) program in 2014  
(60 out of 4500 freshmen in the whole university were chosen for this program based on the academic performance)
- Committee member in the University Students' Union

## RESEARCH EXPERIENCE:

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- **Scenario-Oriented Information Recommendation System** Sept 2016 – Present  
Graduation project
- **Polygon Matching Algorithm** May 2015 – Sept 2016  
Co-wrote a research paper proposing polygon matching by using centroid distance sequence in polar grid
- **Student's Platform for Innovation and Entrepreneurship Training Program** Feb 2015 – Dec 2015  
Developed Chinese calligraphy practice cellphone application aiming at helping tyros to learn Chinese handwriting in a three-people team; responsible for auxiliary algorithm realization and the whole program construction, including the realization of User Interface, Business Logic and Data Access
- **Intern in China-soft international Company** June 2016 – July 2016  
Real estate website construction  
Responsible for the back-end of administrator module by using SSH framework, assisting the front-end of this module and database design
- **Field investigation into the influence of mobile terminal** Aug 2014 – Nov 2014

### **catering O2O on the college students' dining behaviors**

Took part in the field research, designing online questionnaires, analyzing data and writing the paper

## **COURSE PROJECTS:**

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- **Realization of a simplified intelligent input method**  
(inputting Chinese Pinyin letters causes the output of corresponding characters sorted by matching probability)  
I wrote programs to grab news web pages and determine the frequency of words by news content, and applied ICTCLA to Chinese Word Segmentation.
- **Realization of a simplified search engine**  
(a simplified version to understand basic principles of search engine)  
I grabbed web pages by using Heritrix, did Chinese Word Segmentation by jie-analysis and constructed index by Lucene.
- **Coffee Sales Website**  
(accomplished when learning asp.net)  
I used a three-layer frame and stationed it at <http://182.254.141.18/>
- **Chat Application based on C/S model**  
(a project accomplished when learning TCP)  
I realized private chat, group chat and off-line message. The procedure was divided into client and server, the data of the both ends were transmitted in xml and the appearance of this application was similar to the chat software QQ.

## **CONFERENCES & PUBLICATIONS:**

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- 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. (paper presented at concurrent sessions and published in the proceedings submitted to EI)
- Huang, Liuyin. "Analysis of the Logical Fallacies in Web Debates". The Third International Symposium on Communication Studies of Rhetoric. Central China Normal University, Nov 07-09, 2014. (poster presentation)

## **SKILLS:**

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- **Programming languages:** C, C++, C#, Java, Python, JavaScript, SQL
- **Operating System:** Windows, Mac OS, Linux
- **Programming Software:** Visual Studio, Android Studio, Eclipse, Matlab, Xcode, Hadoop
- **Other Software:** Git, SQL Server, MySQL, Microsoft Visio, Microsoft Project

## **SOCIAL ACTIVITIES:**

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- Organized many activities for the university students when working in the Students' Union
- As a volunteer to help the freshmen
- As a volunteer during The Third International Symposium on Communication Studies of Rhetoric