

# Xingbang Liu

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## EDUCATION

Bachelor of Science in Computer Science  
Allegheny College, Meadville, PA  
Minor: Psychology

Expected graduation: May 2020  
GPA(General): 3.31/4.0  
GPA(Major): 3.77/4.0

## RELEVANT COURSES

CMPSC 111 Introduction to Computer Science I

- Learned basic algorithms, problem-solving techniques, primitive data types, and objects.

CMPSC 112 Introduction to Computer Science II

- Learned data structures, algorithm design, the analytical and experimental evaluation of algorithm performance, object-oriented design.

CMPSC 210 Principles of Computer Organization

- Learned logical structure, hardware components, machine and assembly language, and computer system performance.

CMPSC 390 Data Analytics

- Learned computational and analytical methods for finding patterns in large data sets by using R.

CMPSC 250 Algorithm Analysis

- Learned fundamental methods for designing and implementing algorithms and analyzing their efficiency.

PSYCH 110 Foundations of Psychology

- Learned introduction to five major sub-areas of psychology: human development, learning and memory, motivation and emotion, social behavior, and individual differences.

PSYCH 162 Human Social Behavior

- Learned how the individual affects the society and how the individual is affected by social situations.

PSYCH 206 Research Methods in Psychology

- Learned research designs, ethics in research, descriptive statistics, graphical methods of data presentation, an introduction to statistical data packages, writing the methods section of a scientific report, and literature searching in psychology.

FSPSY 201 The Human Potential Movement

- Learned writing and speaking skills in the discipline of Psychology.

## PROJECTS

- Library System: designed and developed a system to allow administrators to search the book by subject, author, title, series number. It also checks the status of the book and whether has fine for late due.
- Texas Hold'em Poker Game: implemented the game by using data structures, such as array list and stack, to make basic functions of the game.
- US Mass Shooting Data Analysis: visualize the data by geological information, age information, and mental health state information. Analysis explored connections between age and mental health states.
- Simple Music Suggestion System: implemented the DailyMix, MySong, and SortList functions based on existing suggestion systems.

## WORK EXPERIENCE

Student Worker, Admission Office, Allegheny College

Feb 2018-Present

- Managing College social media platforms such as WeChat, Weibo, Instagram, Twitter
- Posting necessary information every week

Student Researcher, Computer Science Department, Allegheny College

May 2018-Present

- Creating Nature Language Process programs to select information from interview records for MyMeadville organization.
- Adding bubble map functions for MyMeadville organization website.

## **LEADERSHIP AND SERVICE**

Member, International Student Adversary Board, Allegheny College

Oct 2016-Present

- Provided informational help to other International students
- Helped International Office to collect public opinions
- Collaborated with other board members to help International Office to manage activities

Consultant, Chinese American Friendship Society, Allegheny College

Feb 2018-Present

- Providing cultural information and suggestions
- Organizing club events with other board members

## **SKILLS**

Software: Microsoft Office 2016, Adobe Photoshop CC 2017

Programming language: Java, Python, Markdown, R, MIPS, C, HTML, JavaScript

Operating system: Windows, Ubuntu

Social Media Platform: WeChat, Weibo, Instagram, Twitter

Language: Chinese (Native), English (fluent)