

# Xingbang Liu

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## pages

in Xingbang Liu

liux2

🌐 xingbangliu.io

## courses

- Principles of Computer Organization
  - Data Analytics
  - Algorithm Analysis
- Artificial Intelligence
  - Discrete Structures
- Compiler Development
- Foundations of Psychology
  - Human Social Behavior
  - Research Methods in Psychology
- Sensation and Perception

## languages

Java, Python, R, C, MIPS,  
JavaScript, HTML

## tools

Adobe Creative Suite,  $\text{\LaTeX}$ ,  
Git, (Ba)sh, Linux/GNU,  
Office Suite

## gpa

Major: 3.513  
Overall: 3.230

## awards

Cupper Scholar  
Alden Scholar

## interests

artificial intelligence (recommendation system and natural language processing), software development

## experience

- May 2019 – Aug 2019 **Creative Technologist (internship)** Chengdu AIUX Studio  
*Creative technologist internship*
- Developed an application to visualize speeches and convert speech to plain text for further analyze and visualization
  - Deployed GitLab and Seafile to server
  - Trained a conversational agent using seq2seq for use by designers
  - Researched animal identity recognition system
  - Tools utilized: *Python, Java, Processing, Seq2seq, GitHub, GitLab, Markdown, Docker, Sketch, Kactus, Arxiv*
- Feb 2018 – May 2019 **International Admissions Assistant** Allegheny College  
*Student assistance and social media*
- Managed College social media platforms
  - Posted necessary information
  - Tools utilized: *WeChat, Weibo, Instagram, Twitter*
- May 2018 – Aug 2018 **Research Assistant** Allegheny College  
*Python NLP application*
- Developed and enhanced an application to select information from interview records for MyMeadville organization
  - Tools utilized: *Python, Numpy, NLTK, Pytextrank, scikit-learn, GitHub,  $\text{\LaTeX}$ , Markdown*

## projects

- Feb 2020 – May 2020 **Music Matching System** Thesis Project  
*A Python project to match descriptive paragraphs with music*
- Used NLP to summarize paragraphs, then match it with music lyrics.
  - Recommended music by using string similarities.
  - Conducted user research to evaluate the program.
  - Tools utilized: *Python, Flask, Pytextrank, Pipenv, Pytest, AWS, GitHub*
- Apr 2018 – May 2018 **Simple Music Suggestion System** Semester Final Project  
*A Java project for data structure practice*
- Implemented the DailyMix, MySong, and SortList functions based on existing suggestion systems.
  - Tools utilized: *Java, GitHub*
- Nov 2017 – Dec 2017 **US Mass Shooting Data Analysis** Semester Final Project  
*A R language project for practice purpose*
- Visualized the data by geological information, age information, and mental health state information. Analysis explored connections between age and mental health states.
  - Tools utilized: *R, Kaggle, GitHub*