Xingbang Liu

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pages

in Xingbang Liu
 liux2
 xingbangliu.io

courses

- Principles of Computer Organization
- Data Analytic
- Algorithm Analysis
- Computer Organization
- Artificial Intelligence
- Discrete Structures
- Compiler Development
- Programming Languages
- Software Engineering
- Operating Systems

- Calculus and Multivariate Calculus
- Foundations of Mathematics
- Linear Algebra
- Probability and Statistics

- Foundations of Psychology
- Human Social Behavior
- Research Methods in Psychology
- Sensation and Perception
- Psychology of Prejudice

languages

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

tools

Adobe Creative Suite, LaTeX, Git, (Ba)sh, Linux/GNU, Office Suite

gpa

Major: 3.50
Overall: 3.23

awards

Cupper Scholar
Alden Scholar

interests

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

education

| Aug 2016 – May 2020 | **Allegheny College** | Meadville, PA |

Computer Science Major, Psychology Minor
Graduated May 2020

publication & activities

| 2019 | **32nd International Artificial Intelligence Society Conference** | Proceedings Poster |

Topic: *Intelligent Text Extraction and Summarization for an Improved Community Initiative.*

| 2019 | **AAAI** | Proceedings |

2019 Fall Symposia on Artificial Intelligence in Government and Public Sector
Topic: *Automated Text Summarization for the Enhancement of Public Services.*

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, 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*

Mar 2017 – Apr 2017 **Texas Hold'em Poker Game** Semester Final Project
A Java program for data structure practice
- Implemented the game by using data structures, such as array list and stack, to make basic functions of the game.
- Tools utilized: *Java, BitBucket*