

Tianrui Liu

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Birthday: 16 Mar 2000 | Gender: Male | Hometown: China | Ethnic: Asian

EDUCATION

Michigan State University

Aug 2018 - May 2022

Sophomore Computer Science Department of Computer Science and Engineering

East Lansing, MI

- GPA Comprehensive: 3.9 / 4.0; GPA Computer Science Course: 4.0 / 4.0
- Honors and Awards: International Freshmen Scholarship (2018)
- Relevant Coursework: Algorithms and Data Structures, Computer Organization and Architecture

Hefei No.1 High School

Aug 2015 - May 2018

High School Student International Department

Hefei, Anhui

- GPA Comprehensive: 3.7 / 4.0
- Honors and Awards: Campus Leadership Award (2015-2016), Annual Innovation Award (2016-2017), Annual behavior model student (2017-2018)
- Relevant Coursework: Computer Foundation: Application Java Programming

RESEARCH EXPERIENCE

Teachers in Social Media

Feb 2019 - Present

Researcher , MSU Data Science and Engineering Lab

East Lansing, MI

Instructor: [Jiliang Tang](#) (Directing the Data Science and Engineering Lab).

Statistics and analysis of the data of the educational network system, and the results are fed back to the social science experimenters. This is a joint research project in computer science and social sciences. [Link: https://www.teachersinsocialmedia.com](https://www.teachersinsocialmedia.com).

- Responsible for big data analysis and research using the Python programming language. For the collection and organization of web page data. Optimize and categorize data that has been saved on the server, allowing teachers to view collected local data more clearly and quickly.
- The level of programming skills and academic level of participating in the research has also increased. Mastered some tips and knowledge of big data collection and analysis. Participate in most of the debugging and research of the program, and initially estimate the completion of tens of thousands of lines of code.
- The purpose of this study is to analyze a large number of Shared teaching resources and to reflect the current social education level and the quality of teachers' topics. A lot of them involve big data analysis and mining.

PROFESSIONAL EXPERIENCE

Bank of China

Jun 2017 - Jul 2017

Data management intern , Equipment Division

Hefei, Anhui

- Participate in the daily scheduling of the equipment management department. Responsible for maintaining and checking the normal and daily security of the banking system. If an alarm or abnormality is detected, resolve it as soon as possible. Otherwise, contact the senior engineer in the headquarter immediately.
- Actively cooperate with the instructions and requirements of the higher authorities. Complete the required tasks and tasks as quickly as possible. At the same time for the bank customers also have the corresponding technical support and service.

SELECTED PROJECTS

VEX Robotics World Competition (Gold Award)

Oct 2015 - May 2016

The Programmer

Louisville, Kentucky

- Responsible for program modification and programming in the robot team, as the only programmer in the team. In the face of any failure, to make full preparations before the game. In the event of major defects that cannot be solved, contact the person in charge as soon as possible and make a new plan.
- Active communication and exchange of views with the robot control personnel can make the full play of all the advantages and the highest performance of the robot in the scene of the game. Finally won the 2016 VEX world robot championship gold award.

LEADERSHIP EXPERIENCE

Engineering team cooperation course

Aug 2018 - Dec 2018

Group Leader , Engineering group

East Lansing

- Actively participate in topic discussion and research engineering programs in group experiments. And finally chose Android software as the final issue. Interact with other members and guide the UI and functional design of the program. Develop a variety of different implementation options for other members to vote for.
- In the end of the experimental report speech as a keynote speaker. Introduce the programming concept and development process in detail. The final score for the course is A+.

High School-level Debate Competition

Sep 2017 - Oct 2017

Debater , Debate group

Hefei, Anhui

- Led the debate team to over 20 campus and won the finished top 3 in the final. Also won the individual title of "best debater" in the team's final rating.
- Help analyze and discuss the key points about the argument, and actively collect a large amount of information and materials of the argument. A quick retort to an opponent's mistake during a match.

MISCELLANEOUS

- **Skills:** Violin Professional Six-Level, Python, C++, Matlab, Pascal
- **Certifications:** AP Calculus BC: 5
- **Languages:** English (Fluent, IELTS 8.0), Chinese (Native), Japanese (Basic)
- **Activities:** Innovative characters on campus (2016-2017)
- **Interests:** Table tennis (Team Captain), Violin (Level 6), Jogging