

# LIU,YI

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## EDUCATION

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<b>Jinhua No.1 High School</b> -Zhejiang,China	2013.10 - 2016.06
<b>Zhejiang University City College</b> -Zhejiang,China	2016.10 - 2020.06
Bachelor of Software Engineering	
<b>Tokyo Metropolitan University</b> - Tokyo, Japan	2021.04 - 2023.03
Master of Computer Science	

## PROJECT EXPERIENCE

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### **Group-level Emotion recognition in Virtual Reality based on machine learning** 2021.9 - 2022.1

Tokyo Metropolitan University research project

- Had made an oral presentation in NCSP22
- Conduct a multi-person conversational emotion elicitation experiment in VR space.
- Collect EEG and ECG data using Muse brainwave headband and Polar H10
- Do classification using Machine learning algorithms

### **Lab Monitoring System Based On Raspberry Pi And VisionKit** 2021.6 - 2021.9

Tokyo Metropolitan University research project

- A self-developed laboratory human and environment monitoring system based on the pet monitoring IOT system
- Use BME280 module to obtain temperature, humidity, and air pressure data,Used HC-SR04 module to obtain distance data and saves it to database
- Use SSH to control VisionKit for human perception recognition, and sended the picture a nd environment data to the Slack platform when recognized people

### **Yokohama Travel Planning AI Based on Monte Carlo Tree Search (MCTS)** 2020.11 -2021.3

One-day trip planning for Yokohama city based on the Monte Carlo tree search algorithm

- Use crawlers and Google Maps API to collect POI data and traffic travel data.
- Based on the UCT algorithm, the points of interest and transportation are recommended with recommendation scores.
- Deploy the website on the cloud server based on Django.

### **Pokemon Matching AI based on Monte Carlo Tree Search (MCTS) algorithm** 2019.9-2020.4

Undergraduate stage graduation Design.

- Implement a Pokemon battle AI with incomplete information based on the MCTS and UCT algorithm
- Modify the Pokemon battle simulation program to 2v2 mode and deploy AI into the battle simulation program
- Compare the Winning percentages of IF-ELSE algorithm, UCT algorithm and classical MCTS algorithm.

**SSM Based Hangzhou Precipitation Visualization GIS Website**

2019.6-2019.7

- Develop a precipitation(rainy/snow/flood) visualization GIS website based on SSM/VUE in frastructure in JAVA.
- save 8G data using MYSQL and deploy on Cloud Server.
- Implement the precipitation prediction function with the ARIMA algorithm.

**RadioActive Examination Questions Area Recognition And Segmentation System**

2019.3-2019.6

Win the second prize of Zhejiang Service Outsourcing Competition

- Play as a leader that is responsible for the main code framework design, group-work task division and check
- Implement automatic examination question Recognition system, recognized and cut out the question area for each question
- Design the UI based on Tkinter, designed batch pre-processing and automatic question cutting functions, designed manual proofreading functions

**INTERNSHIP****Rakuten Travel API Development internship**

2022.3-2022.4

- Fetch Reward Snapshot Data from the data base, saved data to DTO.
- Transfer the data to the Response format and deploy the project to the server
- Test the API by sample data using PostMan, debug the code

**Fujitsu SE short-term internship**

2021.11

- Understand the duties of a system engineer and the importance of system analysis and design in Japanese companies
- Participate in proposal Presentation and mentored other liberal arts students in Java development.

**Tokyo Metropolitan University Pet monitoring system Programmer**

2021.6-2021.9

- Interface with professor to confirm research project goals and development requirements, confirmed requirements documentation
- Deploy Raspberry Pi and sensors, update environment dependencies, develop and test programs for new requirements
- Write user-manuals, problem solving manuals, code descriptions, and other documentation

**ArcSoft Technology - Project Manager Assistant**

2019.10-2020.1

- Assist Project Manager of Data Department in data collection, processing, annotation task assignment and member management
- Make suggestions on problems in data production process and better use of datasets, improve efficiency and accuracy of annotators, and complete annotation tasks on time

**SKILLS AND INTERSTS****Professional Skills:**Programming with Python and Java, Project Management knowledge**Language:**Chinese(Proficient), Japanese(Intermediate), English(Intermediate)**Interest:**Badminton, Pokemon, The game of GO, VR, Cooking