**LIU,YI**

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**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Jinhua No.1 High School**-Zhejiang,China 2013.10 - 2016.06

**Zhejiang University City College**-Zhejiang,China 2016.10 - 2020.06

Bachelor of Software Engineering

**Tokyo Metropolitan University**- Tokyo, Japan 2021.04 - 2023.03

Master of Computer Science

**PROJECT EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**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 and 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 infrastructure 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 thequestion 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

**Fujistu** 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