**LIU,YI (Yuta)**

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

**Jinhua No.1 High School**-Zhejiang,China 2013.10 - 2016.6

**Zhejiang University City College**-Zhejiang,China 2016.10 - 2020.6

Bachelor of Software Engineering

**Tokyo Metropolitan University**- Tokyo, Japan 2021.4 - 2023.3

Master of Computer Science

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

**Group-level Emotion recognition in Virtual Reality based on machine learning** 2021.8 - now

Tokyo Metropolitan University research project

* Conducted a multi-person conversational emotion elicitation experiment in VR space.
* Collected EEG and ECG data using Muse brainwave headband and Polar H10
* Did 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
* Used BME280 module to obtain temperature, humidity, and air pressure data,Used HC-SR04 module to obtain distance data and saves it to database
* Used 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

For one-day trip planning in Yokohama, Japan based on the Monte Carlo tree search algorithm

* Used 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.
* Deployed 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.

* Implemented a Pokemon battle AI with incomplete information based on the MCTS and UCT algorithm
* Modified the Pokemon battle simulation program to 2v2 mode and deployed AI into the battle simulation program
* Compared the Winning percentages of IF-ELSE algorithm, UCT algorithm and classical MCTS algorithm.

**RadioActive Examination Questions Area Recognition And Segmentation System** 2019.3-2019.6

the second prize of Zhejiang Service Outsourcing Competition

* Played 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
* Designed the UI based on Tkinter, designed batch pre-processing and automatic question cutting functions, designed manual proofreading functions
* Directed promotional video and participate in the topic defense

**INTERNSHIP\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**IBM ISE** Agile Development internship 2021.11

**Fujistu** SE short-term internship 2021.11

* Understanded the work content and process of SE by Simulating a real work process through group work
* Participated in proposal Presentation and mentored other liberal arts students in Java development

**NTT DATA (NST)** SE short-term internship 2021.10

* Understanded the duties of a system engineer and the importance of system analysis and design in Japanese companies
* Learned how to investigate and analyze social, industrial, and corporate situations

**Tokyo Metropolitan University** Pet monitoring system Programmer 2021.6-2021.9

* Interfaced with professor to confirm research project goals and development requirements, confirmed requirements documentation
* Deployed Raspberry Pi and sensors, update environment dependencies, develop and test programs for new requirements
* Writed 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