Mengzhuo Chen

18571636956 | icyfeather@foxmail.com
Chengdu
https://robin-chen.netlify.app/
21 | Male | Wuhan, Hubei | Han
Students in school

四川大學
SICHUAN UNIVERSITY

EDUCATION

Sichuan University   Sep 2019 - Jun 2023

Computer Science and Technology Bachelor Computer college   Chengdu

GPA:

3.91 / 4.00

Ranking:

8/254 (former 3.15%)

HONORS & AWARDS

Top 100 students of Sichuan University (only four graduate students and undergraduates from the School of Computer Science)	2022
National scholarship	2019-2020
Comprehensive first-class scholarship	2019-2021
Wang Laoji Scholarship	2020-2021
Smart base scholarship	2020-2021
M Prize in the American College Student Mathematical Modeling Contest	2021
Outstanding student of Sichuan University	2019-2020
Outstanding student cadre of sichuan university	2020-2021

SUMMARY

- He has rich experience in the project, has many major projects and has nearly one year of NLP laboratory internship experience.

- Strong learning ability, won a national scholarship, can use common languages to program and solve practical problems

- Good communication skills, once served as the president of an academic association, good at execution and team spirit, strong text synthesis and expression skills

Societies and organizational experiences

Sichuan university huawei smart base community/sichuan university open source hardware association   Sep 2021 - Apr 2022

President

- In 2020, he led the association to win the title of National Excellent Smart Base Association (the other two are Tsinghua University and Zhejiang University)

- Organized the Huawei HDC Developer Conference Sichuan University Sub-venue and the Huawei HC Full Connection Conference Sichuan University Sub-venue, with participants exceeding 200 people

- Interviewed by Huawei and Chengdu TV Station

SKILLS, CERTIFICATIONS & OTHERS

- **Languages:** CET-4 589, CET-6 539

SKILLS LIST

Python (Basic Operations, Crawler, Data Analysis Processing, Pytorch)

C++ (including Qt)

ESP8266, ESP32 development

Raspberry Pi

Linux (Proficient in Linux Server)

java(SpringBoot)

Docker

Nginx

PROJECT EXPERIENCE

LoRaBand-directional motion real-time sign-off system

Project members

- Using GPS positioning, LoRa transmits information over long distances
- Use WeChat applet to display the address information of directional runners on the map in real time

QuickArt-Animation production system based on generating adversarial network and depth-aware network

Project leader

- Contact Sichuan University Art School Li Wenyu (who won the Warsaw Film Festival Best Animation Short Film Award) and Computer School Peng Xi (National Distinguished Young Professor) as instructors to discuss and analyze various specific aspects of AI's animation creation
- Use LineNormalizer model and LineRelifer model to finalize the artist's line draft
- Multi-style selective coloring of line drafts using hierarchical countermeasure generation networks
- Use the DAIN model to add frames to animation works

Polaris-a high-precision positioning photo feedback system for large scenes based on the principle of visible light communication

Project members

A product that serves large-scale assembly places such as concerts, integrates optical communication technology to achieve high-precision positioning and provides humanized services such as photo feedback to improve the experience of participants.

- Use ESP32 core board and three-color RGB strip to realize Polaris strip design
- Using Manchester OOK to Realize Optical Communication Coding and Decoding
- Build a database to store user-device id relationships and captured images.
- The WeChat public number is launched as a medium for photo push, and it is convenient for users to bind devices and feedback information.

Geek Market-RFID-based unmanned supermarket

Subsequent members of the project

Jishi is a student entrepreneurship project of Sichuan University Commercial Street. RFID tags are used to automatically identify commodities. Jishi has reached the target of running water of more than 100,000 yuan per month.

- Use RFID tags to identify product categories
- Use infrared sensors to identify whether someone has entered the shopping area
- Through the camera screen AI human body recognition to draw the unmanned supermarket internal heat map, improve the supermarket product layout

Laboratory experience

Semantic Matching of Ancient Poems

Key members

- Using the ancient poetry network, ancient poetry network and other six ancient poetry websites, through the crawler to collect ancient poetry original text, translation, appreciation, background and other data
- Integrate collected ancient poetry materials and use Sentence-Bert training to obtain semantic similarity between the original poetry and translation and appreciation
- Use Contrastive Learning to complete the whole sentence semantic proximity alignment, use Unsupervised Word Alignment to complete the word fine-grained semantic proximity alignment