Licheng Zheng

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Education

Shanghai University   Sep 2021 – Jun 2025(Expected)
B.Eng in Artificial Intelligence   Shanghai, China
- GPA 85.2/100
- Supervised by Shaorong Xie, dean of Computer Enginnering and Science.

Internship

Shanghai Lightwheel AI Co. Ltd.   Dec 2023 – Now
Research Intern of 3D-reconstruction group   Shanghai, China
- **Aim**: Optimize 3D reconstruction algorithm to auto-driving scene and produce better results.
- **Content**: Developed a frontend and backend platform using Vue+Flask. By reading evaluation metrics in real-time, the system can easily visualize the result online. Also, participated in the development of automated evaluations, and automatically conduct weekly algorithm metric evaluations throughout the entire process.

Institute for AI Industry Research, Tsinghua University   Jun 2023 – Jan 2024
Research Intern, Group Member of DISCOVER Lab   Beijing, China
- **Resarch Topic**: Point-based Scene Warping for High-quality Neural Radiance Fields
- **Overview**: Using Point-based method and design a warping function to minimize the holes in Neural Radiance Fields' rendering, and improve the overall quality of the whole 3D-reconstruction.
- **Content**: Developed project *pointnerf2studio*, which is an unofficial migration for the original implementation of **Point-NeRF** to **nerfstudio**, Project Link: **pointnerf2studio**

Projects

Automatic descriptor acquisition method for NASICON electrolyte   May 2022 – Mar 2023
Group Member, supervised by Prof Y. Liu in Shanghai University   Shanghai, China
- **Overview**: Using the text mining method, descriptors can be extracted from small batch of NASICON solid electrolyte documents and trained based on this model to achieve automatic and efficient acquisition of NASICON solid electrolyte descriptors.
- **Content**: Using **Vue** to develop front-end interfaces and the back-end deployment using **Springboot** to communicate with **MySQL** and **Neo4j** databases. BERT algorithm are deployed using **Pytorch** for paper processing, and the extracted descriptors are used to construct the knowledge map using **Neo4j** database.

Computer Vision Recognition System for RoboMaster Robots   Oct 2021 – Dec 2022
Leader of Computer Vision Group, SHU RoboMaster Team SRM   Shanghai, China
- **Overview**: Through the video stream of industrial camera deployed on the robot, this project can identify enemy robots' armor plates, and publish the target coordinate information to lock the platform at the recognition center. Its performance is similar to a self-aiming plugin in First-person shooting games.
- **Content**: The Yolo network is deployed on **Ubuntu** using **CUDA**. Kalman filter and trajectory model are used to improve the impact point of the projectile and achieve accurate strike.

Awards and Honors

Scholarship for Innovation of Shanghai University Feb 2023

The 21st National Undergraduate Robot Competition (RoboMaster 2022) 3rd Prize, Aug 2022

The 35th Shanghai Youth Science and Technology Innovation Competition 1st Prize, Apr 2020

The 1st International Artificial Intelligence Fair(IAIF, SenseTime hosted) 1st Prize, Mar 2019

Shanghai Youth Robot Knowledge and Practice Competition 1st Prize, Nov 2018 and Nov 2019

Shanghai Youth AI Competition. 1st Prize, Nov 2018

Skill Set

Programming Languages:
- Familiar with **C++, Python, MATLAB, HTML, CSS, LaTeX.**
- Basic experience in **JavaScript, Vue, Java, SQL, bash.**

Tech Skills: C-Compiling methods, machine learning, deep learning, CUDA programming.

Tools: Hands-on experience in **Ubuntu** and **git** on daily basis.

English: 593 for **CET4**, 502 for **CET6**

Interests: Photography, Programming, Classical Music.