Xin Liang

Gmail | Github

Education

Tongji University **Shanghai, China**
B.E. in Software Engineering , GPA : 89.74 / 100 ; Major GPA : 95 / 100 *Jan 2021 – Jan 2025*

- **Relevant Courses:** Linear Algebra , Advanced Mathematics , Probability and Statistics , Discrete Maths , High-Level Language Programming , Data Structure , Algorithm , Operating System , Database , Computer Organization , Human-Computer Interaction , Principles of Compilers

Tongji University **Shanghai, China**
Freshman in Architecture and Urban Planning *Apr 2020 – Jan 2021*

Research Interests

Currently my research interests lie in reseach on **Decentralized Autonomous Organization(DAO) Governance** using **Multi-Agent Reinforcement Learning(MARL)** . I'm interested in **AutoML**,and have some knowledge about **DARTS** in neural architecture search.
I'm also very interested in **Blockchain** and **Non-Fungible Token(NFT)**,I've been working on some projects about developing Decentralized App(**DApp**).

Project Experience

ETH Beijing Hackathon 2023 Apr 2023 – Apr 2023
Contestant,Innovative Layer2 Dapp,Github

- Built a **demo** from scratch in three days.
- Developed a decentralized news system named **FactLENS** as validation ecosystem, which consists of **FactLENS plugin** and **FactLENS website**.

MIT-Tongji City Science Lab Jan 2023 – Present
Intern , DApp-smart contract Group,Github

- Worked with **Solidity** to develop smart contract based on specific modules.
- Research into **DApp development architecture** ,using **Hardhat** etc. to interface smart contrat with front-end and back-end interactions.
- Deployed **ABDK Library** to solve the problem of solidity not supporting floating point operations.

Research Experience

MIT-Tongji City Science Lab Mar 2023 – Present
Research Intern , MARL Group

- Doing research on Social dilemmas and Decentralized Autonomous Organization(DAO) governance using MARL

Tongji University Oct 2022 – Mar 2023
NaMI Lab,Research Intern

- A **patent** in preparation.The patent proposed a neural architecture search method.This automatic machine learning method reduced the search time required to find a suitable architecture and guaranteed the accuracy of the final result, ICASSP 2023 Poster Session.
- Learning **Monte Carlo Trees** , using **pytorch** ,python to optimize the Chinese chess code based on **AlphaZero** , adding **behavioural clones** and then doing reinforcement learning to train the strategy network.

Technical Skills

Languages	:	C/C++,Python,Solidity,MATLAB,HTML,CSS
Machine Learning	:	PyTorch, TensorFlow
Databases	:	MySQL
Design and Modeling	:	Adobe PS/AI/ID/PR/AE ,Unity3D,Auto CAD,Rhino,Sketch Up
Web3 and Blockchain	:	Polygon(Solidity),Hardhat,Remix