Yicheng Liu

Shanghai Jiao Tong University

School of Electronic Information and Electrical Engineering

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Home Github

Education Shanghai Jiao Tong University

Undergraduate, 2020 - Present

GPA in first three years: 90.70 / 100 Rank in first three years: 1 / 59

Experience University of Michigan

Summer research in OrderLab Advisor: Prof. Ryan Huang

Mentor: Yigong Hu

Project: Cancellation in distributed system

Shanghai Jiao Tong University

Intern in Institution of Paralled And Distributed System

Advisor: Prof. Jinyu Gu and Prof. Haibo Chen Project: Autopilot system based on ROS2

Project: Kernel address sanitizer in microkernel OS

Project: OS syscall acceleration

Shanghai Jiao Tong University

Intern in John Hopcroft Center Advisor: Prof. Guanjie Zheng

Project: Traffic simulation system aiming for large scale flow

Project: Offline reinforcement learning algorithms for traffic signal control

Shanghai Jiao Tong University

PRP project participant in Intelligent Computer Architecture Technology

Mentor: Zefang Yu

Project: Automatic image dataset collecting through 3D engine

Publications Synpose: Large-Scale and Densely Annotated Synthetic Dataset

for Human Pose Estimation in Classroom Zefang Yu; YangCheng Li; **Yicheng Liu**; Ting Liu; Yuzhuo Fu

ICASSP, 2022. Paper Blog

CBLab: Supporting the Training of Large-scale Traffic Control

Policies with Scalable Traffic Simulation

Chumeng Liang; Zherui Huang; **Yicheng Liu**; Zhanyu Liu; Guanjie Zheng; Hanyuan Shi; Yuhao Du; Fuliang Li; Zhenhui Li SIGKDD, 2023. <u>Paper Doc Code</u>

Honors

The Second Prize Scholarship, Shanghai Jiao Tong University	2023
Guobin Scholarship, Shanghai Jiao Tong University	2023
Excellent League Member, Shanghai Jiao Tong University	2023
National Scholarship, Ministry of Education of China	2022
The First Prize Scholarship, Shanghai Jiao Tong University	2022
Merit Student, Shanghai Jiao Tong University	2022
The Third Prize Scholarship, Shanghai Jiao Tong University	2021

Interest

Make system secure and reliable Make secure and reliable system faster AI 4 SYS

Skills

C/C++
ChCore, a microkernel OS (Contributor) <u>Code</u>
ParaBox CLI, a CLI version of game ParaBox <u>Code</u>

CBData, a fast tool for traffic trajectory match and generate Code

Java

Cancellation project (Contributor), Unavailable yet

Rust

A single executable of UNIX tools combination, Unavailable yet

Python

Synpose, an automatic image dataset collector (Contributor) $\underline{\text{Blog}}$ Traffic signal control through reinforcement learning, Unavailable yet