Meilin Zhu

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EDUCATION

Institute of Software, Chinese Academy of Sciences(Univ. of CAS)	July 2023 - June 2029(est.)
Ph.D. Software Engineering	*Current GPA: 3.88/4.0*
Tsinghua University	July 2019 - June 2023
B.Eng. Computer Science and Technology	*GPA: 3.73/4.0*
Jilin City No.1 High School	July 2016 - June 2019
No.11 of students in Jilin Province in National College Entrance Examination	

SKILLS

Languages: Python, C/C++, Cython, Rust, Java/Kotlin, JavaScript, TypeScript, Go, HTML, JSON, CSS, Ruby, LaTeX
Frameworks: Pytorch, Node.js, React Native, Bootstrap, Ruby on Rails, Django
Tools: Linux(Configuring and Managing), Git, Docker, LaTeX, Slurm, Postman

SELECTED PROJECTS

ISS | *Autonomous Driving Platform*   Jan. 2023(Under Development)
- Modular framework with the aim to build an extensible workspace tailored to research
- Contain both traditional and deep learning algorithms for self-driving related tasks
- Design modulars with minimal dependency on external libraries, providing clean workspaces for researchers

*** Net Access | *Network Service Provisioning Module*   Aug. 2021
- Cooperated with *** Co., Ltd, developed its network service provisioning and access module used for routers
- System with complete frontend and backend
- Implemented functions: User Management, Ticket Lifespan, Online Appointment, etc.

Naive Ray Tracer | *C++ Ray Tracing Engine*   May 2021
- Implemented basic PT(Path Tracing) and SPPM(Stochastic Progressive Photon Mapping) algorithm
- Speed up intersection process by KD-Tree pre-processing
- Implemented Bezier & B-spline Curve Intersection algorithms based on Newton-Raphson Method
- Implemented extra features including textures, focus depth and anti-aliasing

EXPERIENCE

Institute of Software, Chinese Academy of Sciences | *Research Intern*   Oct. 2022 – June 2023

- Designed modular structure of ISS platform
- Implemented data exchange layer and majority part of perception layer of ISS
- Participated in adversarial attack on NeRF and its downstream applications

AISpeech Inc. | *Developing Engineer Intern*   June 2022 – Sept. 2022

- Improved end-to-end keyword spotting & recognition system, data alignment, conducting baseline experiments
- Speed up model training and deployment by optimizing network structure and downsizing neural network scale

CoAI Group, Tsinghua University | *Research Intern*   Oct. 2020 - Apr. 2022

- Participated in fine-tuning LLMs and data cleaning & scaling