

YU-WEI CHU

Curriculum Vitae

PERSONAL DETAILS

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EDUCATION

MSc. Department of Computer Science

2023-Now

National Yang Ming Chiao Tung University, Taiwan

Relevant Skill: Git, Linux Kernel Programming, OpenCV, OpenGL, C++, Python, LLM

GPA: 4.09/4.3

RESEARCH

LLM Accelerator on Intermittent Devices

2023-Now

Advisor: Chun-Feng Wu, Operating System and Computer Architecture laboratory

- Focused on enhancing the performance of Personal LLM applications, such as GPT, Llama-2.
- Improving model deployment performance to enhance processing efficiency.

PROJECTS

Visualizing Port Operations

Dec.2023-Jan.2024

OpenGL, C++

- Render essential components of the gantry, trunk, and port scene using OpenGL.
- Create textures for each component and the skybox using OpenGL.
- Implement movement controls and item handling for the trunk and gantry using C++.
- Develop cooperation between components and the scene to simulate port operations.

Quad-tree based image compressor

Nov.2023-Dec.2023

Python3, C++, Pybind11, OpenCV, TKinter

- Develop a front-end GUI using Python 3 and the TKinter library.
- Implement a C++ quad-tree library specifically designed for image processing.
- Wrap a custom C++ quad-tree library with Pybind11 to enable its usage in Python.
- Implement the function of image compression using a quad-tree, where the degree of compression can be adjusted through the iteration parameter in the GUI.