

Renyi Yang

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🐙 Github: Renyi Yang [\[web\]](#) 🏠 Personal Website [\[web\]](#)

RESEARCH INTEREST

Software Engineering

EDUCATION

ShanghaiTech University [\[web\]](#)

B.ENG. in Computer Science and Technology

Shanghai, CHN

September 2023 - Current

– GPA: 3.75/4.0 — Major GPA: 4.0/4.0

– Rank(CS major): 24/173

– Rank(School of Information Science and Technology): 34/266

COURSE PROJECTS

Plants vs. Zombies [\[code\]](#)

May 2024 - Jun. 2024

Personal Project

A PvZ game based on C++ with CMake

- Contain basic actions, sunshine, plants and zombies
- Animation for shooting, moving, etc... (e.g. Pole Vaulting Zombie)
- Treat everything as a GameObject (mother class)

MRI Image Reconstruction [\[code\]](#)

Mar. 2025 - Apr. 2025

Team Member

Reconstruct high-quality MRI images from undersampled k-space data

- Combine two independent AttUNet modules and a 3D ResNet
- Dropout, dynamic learning rate scheduling and data augmentation

Pintos [\[code\]](#)

Mar. 2025 - Jun. 2025

Team Leader

A simple operating system framework

- Threads and Synchronization
- User Program and Syscalls
- Virtual Memory
- File System

Fracture Fixation FEA Simulation [\[code\]](#)

May 2025 - Jun. 2025

Team Member

Fracture Fixation using Finite Element Analysis to simulate and optimize fixation devices.

VOLUNTEERING

Volunteer for summer and winter activities [\[web\]](#)

June 2023 - Aug. 2024

Team Member

136 Hours in total

- Teaching Assistant
 - In collaboration with the education team, **innovative teaching tools** and methods have been used to develop summer school programs that provide children with diverse learning experiences and opportunities for personal growth.

TECHNICAL STRENGTHS

Programming Languages	Matlab, Python, C&C++, RISC-V
Framework & Toolchain	Git, Linux, Conda
Misc	L ^A T _E X, Markdown

PUBLICATIONS

No publication yet.