

# Renyi Yang

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

## EDUCATION

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

B.ENG. in Computer Science and Technology

Shanghai, CHN

September 2023 - Current

– GPA: 3.79/4.0 — Major GPA: 3.99/4.0

– Rank(CS major): 17/172

– Rank(School of Information Science and Technology): 25/267

## 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
- 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 (Demand Paging, MMAP)
- File System (Cache, Subdir, Extensible Files)

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

May 2025 - Jun. 2025

Team Member (Equal Contribution)

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

- 2D fea toolkit for bone-fixator systems
- Modeled stress transfer and callus maturation

## VOLUNTEERING

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

June 2023 - Aug. 2024

Team Member

136 Hours in total

○ Teaching Assistant

- Collaborate with the education team to provide children with diverse learning experiences and opportunities for personal growth, which uses specialized teaching methods and materials.

## TECHNICAL STRENGTHS

Programming Languages

Matlab, Python, C&C++, RISC-V

Framework & Toolchain

Git, Linux, Conda

Misc

L<sup>A</sup>T<sub>E</sub>X, Markdown