

# XINYI ZHOU

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## EDUCATION

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- Zhejiang University** Zhejiang, China  
*Bachelor of Computer Science; GPA: 88.92* *September 2020 - Present*  
*Courses: Mathematical Analysis, Linear Algebra, Data Structures, Computer Architecture, Machine Learning, Database, Computer Networks, Operating System, etc.*

## SKILLS SUMMARY

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- Languages:** C/C++, Python, MySQL, Julia, Verilog, Matlab, JavaScript, HTML5/CSS  
Natural languages - Mandarin(native), English(TOEFL: 103)
- Tools:** PyTorch, Jupyter Notebook, Git, Markdown, Latex
- Platforms:** Linux, Windows

## RESEARCH INTERESTS

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Computer Graphics, Computer Vision, Virtual Reality, Augmented Reality

## EXPERIENCE

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- Undergraduate Research Assistant** Zhejiang University  
*State Key Lab of CAD&CG, Advisor: Prof. Weiwei Xu* *Feb 2023 - Present*
  - Problem:** Given the multi-view RGBD images, we predict the Radiance Field of the target person for free-view rendering. Our approach is based on octree-based ray points sampling and nerf representation.
  - My Work:** I read the previous work to understand the workflow and model, and conducted part of comparative experiments and demonstrated that our method outperforms the previous work.

## PROJECTS

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- A naive implementation of Linux kernel:** A Linux kernel with basic operating system functions including trap, scheduling, paging and fork. Language: C (Dec, 2022)
- EasyX - an Android app for exercise:** An app where users are able to interact with the instructional video by speaking rather than touching the screen. Developed in a 6-day HCI hackathon held by NUS and Huawei. Language: Java. (July, 2022)
- MiniSQL - a simplified single-user SQL engine:** Design and implement a simple SQL engine that supports basis functions including add, delete, search and modify. Also, indexing is implemented to improve efficiency. Language: C++ (June, 2022)
- MyNote - a diary editor:** Design and implement an editor for taking diary that supports quick search. User interface is implemented with Qt and search is accelerated using MySQL API. Language: C++ (June, 2022)

## HONORS AND AWARDS

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- The First Prize Scholarship, Zhejiang University - Nov, 2022
- First Prize at National Energy Conservation and Emission Reduction Competition - August, 2022
- First Prize at The Chinese Mathematics Competitions, Zhejiang Division - Dec, 2021
- The Third Prize Scholarship, Zhejiang University - Nov, 2021