XINYI ZHOU

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Education

- **Chu Kochen Honors College, Zhejiang University** — Zhejiang, China
  B.S. — Major: Computer Science and Technology — GPA: 3.89/4.00 — *Sept 2020 - Jun 2024 (expected)*

Skills Summary

- **Languages**: Programming language - C, C++, Python, JavaScript, HTML, CSS, Java, SQL
  Natural language - Mandarin(native), English (TOEFL: 106)
- **Frameworks**: PyTorch, Flask, React, NodeJS
- **Other Tools**: Git, Markdown, Latex, Jupyter Notebook

Experience

- **Research Assistant (Remote)** — University of Pennsylvania
  Supervisor: Prof. Lingjie Liu — *May 2023 - Present*
  - **Task**: real-time human face synthesis.
  - **My work**: synthesized human faces by predicting textures and doing texture mapping with a 3D human head template; accelerated 3D human face synthesis with a faster rasterizer; produced our dataset by reconstructing sparse model from unknown camera poses with COLMAP; read a lot of paper about generative models, especially GANs and diffusion models for 3D generation and reconstruction.
- **Machine Learning Engineer Intern** — Zhejiang Lab
  Supervisor: Hongsheng Wang — *Sept 2023 - Present*
  - **Task**: 3D consistent avatar generation.
  - **My work**: improved 3D consistency of target views by adding cross-attention into reverse process; did survey on state-of-the-art text-to-image and text-to-3D diffusion models; produced multi-view renderings from 3D assets to construct our dataset.
- **Research Assistant** — Zhejiang University
  State Key Lab of CAD&CG, Advisor: Prof. Weiwei Xu — *Feb 2023 - Jun 2023*
  - **Task**: high-quality 3D human reconstruction.
  - **My work**: wrote scripts to reconstruct 3D human body from multiple views using TSDF fusion algorithm; produced 3D human body with artifacts as our test set by adding noise to the input multi-view images; participated in collecting multi-view human dataset.

Projects

- **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

- 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)