Jiaer Huang

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Education

Zhejiang University   *Sept. 2022 – Present*
Computer Science

- **GPA:** 3.98/4.00 (**92.3/100**)   **Rank:** 17/195
- **Main Courses:** Discrete Mathematics and Its Applications(100), Fundamental Data Structure(99), Fundamental Applied Operations Research(97), Object-Oriented Programming(97), B/S Architecture Software Design(96), Advanced Data Structure and Algorithm Analysis(95), Introduction to Data Visualization(95)

Hangzhou No.2 High School   *Sept. 2019 – June 2022*

Honors & Awards

- **National Scholarship, Zhejiang University First Prize Scholarship**   *2022–2023, 2023–2024*
- **Gold Medal**, ACM/ICPC International Collegiate Programming Contest Xi'an   *2023*
- **Gold Medal**, China Collegiate Programming Contest Harbin   *2023*
- **Gold Medal**, The 20th Zhejiang Province *TuSimple Cup* College Student Programming Competition   *2023*
- **Gold Medal**, ACM/ICPC International Collegiate Programming Contest Jinan   *2022*

Projects

Dense Map Reconstruction Based on 3D Gaussian Splatting   *Mar. 2024 – May 2025*
Advisor: Zhaopeng Cui

- Conducted in-depth research on 3D Gaussian Splatting papers, mastering theoretical foundations and implementation details; Developed skills in 3D reconstruction, depth camera operation, RGB-D dataset processing, and real-time rendering
- Introduced SplaTAM's approach, leveraging differentiable rendering of 3D Gaussian Splatting to optimize camera pose estimation and employing silhouette masks to enhance map expansion for efficient, high-fidelity dense RGB-D SLAM
- Admitted to the National College Student Innovation and Entrepreneurship Training Program

Single-user SQL engine MiniSQL   *May 2024 – June 2024*

- Implemented a single-user SQL engine in a team of three
- Developed the execution plan generator, executor, and schema information management module
- Final result evaluated as Excellent

Leadership & Volunteer Experience

- **President**, Photography Department, *Qiushi Trend* Student Organization   *May 2024 – Present*
- **Class Monitor**   *May 2023 – Present*
- **Volunteer**, Summer Teaching Volunteer and Social Practice Team to Pizhou, Jiangsu   *July 2024*

Skills & Interests

- **Language:** Mandarin(native), English(CET-6: 636)
- **Programming:** C/C++, Python, HTML/JavaScript/CSS, Latex, Typst
- **Interests:** Photography / Movies / Guitar / Basketball / Badminton / Tennis / Mahjong