

Haojun Ma

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Software Engineering undergraduate building human-centered AI and interactive systems, with recent work in accessible communication, creative tools, and research interfaces.

Education

Zhejiang University

B.S. in Software Engineering

Selected coursework: Database Systems, Advanced Data Structures and Algorithms, Image Information Processing, Mobile Application Development

Hangzhou, China

Expected Jun 2027

University of California, Berkeley

Visiting Student

Coursework: CS 61C Machine Structures, CS 162 Operating Systems, CS 188 Artificial Intelligence

Berkeley, CA

Aug 2025 - Dec 2025

Research and Selected Work

Sign2Text: Continuous Sign-Language Recognition and Text Translation

Sep 2025 - May 2026

Undergraduate Research · Team Lead, iOS Development, and Model Experiments

- Led a three-student undergraduate team; implemented the SwiftUI application workflow and designed an 800-word high-frequency vocabulary for model retraining.
- In a post-defense follow-up on 642 Phoenix-2014T test samples, evaluated adaptive sampling that reduced end-to-end runtime by 28.8% while WER increased by 0.73 percentage points.

SceneZero: Spatial Notebook for AI-Assisted Filmmaking

May 2026 - Present

Independent Product Project · Continued from a Course-Originated Prototype

- Designed a workflow for capturing multimodal inspiration and organizing spatial scene facts into reusable creative inputs.
- Built a working iOS target with SwiftUI, ARKit, RealityKit, and SwiftData, supporting spatial capture, persistent scene data, and local media handling.

CHI Social Media Research Dashboard

May 2025 - Jun 2025

Course-Lab Collaboration · Frontend and Data Visualization

- Contributed paper screening and tagging for the 2022-2023 CHI proceedings within a 197-record team dataset and participated in taxonomy discussions.
- Built the Overview Panel and implemented chart-to-Sankey filtering in Vue 3 and TypeScript within a three-person frontend team.

IMDb Sentiment Model Comparison

Feb 2024 - Mar 2024

Mentored Machine-Learning Study

- Compared Logistic Regression and Random Forest pipelines with BOW and TF-IDF on 4,000 IMDb reviews using a 70/15/15 train-validation-test split.
- TF-IDF with Logistic Regression reached 89.3% accuracy on the held-out test split; documented the study's narrow model scope and missing error analysis.

Technical Foundation

MiniSQL: B+ Tree Index Manager

Database Systems Course Project · C++

- In a team project built on a course framework, implemented search, insertion, deletion, split and merge behavior, iterators, tests, and debugging for the B+ tree index module.

Honors and Activities

Zhejiang University Third-Class Scholarship

Oct 2024

Zhejiang University Academic Excellence Role Model

Nov 2024

Volunteer Organizer, ZJU CCST (Sep 2023 - Jun 2024): Recruited volunteers and planned music, handicraft, and environmental activities with a local special-needs school.

Summer Teaching Volunteer and Social Researcher (Jul - Aug 2024): Supported Chinese-language teaching for about 40 children and contributed to a study of local culture and tourism.

Technical Skills

Languages: Swift, Python, C/C++, TypeScript/JavaScript, SQL · **Frameworks and tools:** SwiftUI, ARKit/RealityKit, Vue 3, Git ·

Methods: prototyping, machine-learning evaluation, data visualization