

Tianrun Qiu

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Education

Southern University of Science and Technology (SUSTech)

B. Eng.

Computer Science and Technology (4th year)

Sep 2022 - Present

3.85/4.00 Overall GPA, 3.91/4.00 Major GPA

Research Experience

DVA Lab, SUSTech

Research Assistant

Nov 2023 - Present

Shenzhen, Guangdong, China

- Supervisor: Prof. Yuxin Ma
- Focus: Human-AI collaboration in creativity support and visual accessibility

HCI Initiative, HKUST

Research Intern

Jun 2025 - Sep 2025

Hong Kong SAR, China

- Supervisor: Prof. Xiaojuan Ma
- Focus: Primarily on physiological signal-based HCI for experiment guidance.

Papers

HarmonyCut: Supporting Creative Chinese Paper-cutting Design with Form and Connotation Harmony 2025

CHI '25 Full Paper

Huanchen Wang*, Tianrun Qiu*, Jiaping Li, Zhicong Lu, Yuxin Ma†

Tags: Creativity support tool; Generative AI-aided design.

Contribution: Full implementation, ideation participation. 6 citations.

GamerAstra: Enhancing Video Game Accessibility for Blind and Low-Vision Players through a Multi-Agent Framework 2025

Under Review

Tianrun Qiu*, Changxin Chen*, Sizhe Cheng, Xuyang Liu, Xumeng Wang, Zhicong Lu, Yuxin Ma†

Tags: Accessibility, Multi-agent, Human-AI collaboration, Computer vision.

Contribution: Ideation, project leading, 2/3 paper writing, 1/2 implementation. 2 citations.

SenseFusion: Facilitating Users' Cued Recall Debriefing in Retrospective Think-Aloud through VLM-based Multisensor Data Fusion 2025

Under Review

Tags: Sensor, Multi-modal LLM, Think-aloud.

Contribution: 1/2 Implementation, 1/2 paper writing, ideation participation.

Selected Projects

wnr: A Timing Management App

Jan 2019 - Present

Individually Developed App

- App that has received **1000+** stars on GitHub, that reduces visual stress by forcing the screen to lock and provides a large list of customizable preferences.

Factory Ribbon Anomaly Detection & Analysis System

Aug 2022 - Aug 2023

Co-led Industrial Embedded AI Solution

- System for ribbon defect detection and production statistics, with a single-unit cost of only \$40, reaching industrial-grade accuracy, deployed in Hangzhou Lika Rigging Co., Ltd.

Shuli College Dormitory Selection System

Jul 2024 - Aug 2024

Co-led Dormitory and Roommate Selection System

- System for the college from scratch that has helped **600+** students find their ideal roommates.

ParroTao: AI Running Copilot

Sep 2025 - Present

Participated as AI Product Manager and Front-end Leader

- App that provides agent-based physical fatigue monitoring, exercise plan recommendation, and highly flexible exercise record analysis. Will be online before 2026 Summer.

Course Projects and Theses

Nov 2022 - Present

Full Mark and Full Bonus in the Projects or Theses of **10 Classes**:

- Software Engineering; Data Mining; Computer Network; Artificial Intelligence; Principles of Database System; Computer Organization; Digital Design; C/C++ Programming; Intro to Programming in Java; Intro to Artificial Intelligence.

Selected Awards

SUSTech School Motto Scholarship <i>Rixin Prize (For Outstanding Technical Innovation)</i> Highest scholarship of SUSTech (Top 0.2% for Rixin Prize).	Oct 2025
SUSTech Merit Student Scholarship (x2) <i>First Class Scholarship (2023-24) (Top 5%), Second Class Scholarship (2022-23)</i>	2023, 2024
NUS School of Computing Summer Workshop <i>Outstanding Project (A+)</i>	Jul 2024
National English Competition for College Students <i>National Third Award</i>	Apr 2024
SUSTech Outstanding Freshman Scholarship <i>First Class Scholarship (Top 5%)</i>	Dec 2022

Technical Skills

Software Engineering	Java, C++, Electron, Python, Kotlin
Frontend Engineering	Vue, React, Node, CSS
Artificial Intelligence	PyTorch, LLM, Fine-tuning, RAG, Computer Vision
Hardware Engineering	Verilog, FPGA, Signal Processing, Embedded AI
Paper Writing	Actively engaged in the writing for two papers

Language Certificates

TOEFL iBT <i>Scored 108/120</i> <i>Reading 30, Listening 30, Speaking 22, Writing 26</i>	Nov 2024
GRE General Test <i>Scored 329/340</i> <i>Verbal 159, Quantitative 170, Writing 4.0</i>	May 2025

Selected Services

Shuli College Peer Mentors Association <i>Peer Mentor, then Vice President</i> <ul style="list-style-type: none"> • Outstanding Peer Mentor who organized 10+ activities for undergraduate freshmen. Under my leadership, our residential college also became 50% more popular as the first choice. 	Jul 2023 - Jun 2025
SUSTech Learning Center <i>Academic Counselor</i> <ul style="list-style-type: none"> • As an academic counselor, I provide guidance to 3-4 undergraduate students each week on study plans, major selection, and English learning. 	Sep 2025 - Present
CHI '26 Reviewer <i>Reviewer for the top-tier conference CHI '26</i>	Oct 2025