HaoChen Hu

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EDUCATION

National Junior College   **Feb. 2023 - Nov. 2024**

H2 Physics, H2 Math, H2 Computing, H1 Economics   *Singapore*

- **A-Level Rank Point: 88.75 (AAA/A)**
- Key member of the school's String Orchestra, representing singapore at the 2024 Summa Cum Laude (SCL) Festival in Vienna, Austria, finishing third-place in the String Orchestras category.

PROJECTS

NJCSO Tracker   **Dec. 2023 - Apr. 2024**

- Developed a web-based instrument tracking system that streamlined management of 30+ orchestra instruments.
    - **Stack:** SvelteKit, XState, GSAP, Google Sheets API
- Designed a user-centric solution using Google Sheets as the backend database, prioritizing accessibility for non-technical staff members.
- Created detailed transaction logs that improved accountability and eliminated instances of misplaced instruments among student borrowers.

ecoQuest   **Jun. 2024**

- Led a cross-functional team of 5 developers at the prestigious DSTA BrainHack 2024 CODE-EXP hackathon, demonstrating project management and technical leadership.
- Architected and developed a mobile application focused on environmental sustainability using React Native and Flask API within a 48-hour timeframe.
- Strategically delegated development tasks based on team members' strengths, improving team efficiency.
- Earned commendation from industry judges for innovative approach to environmental challenges, highlighting the application's potential real-world impact.

WORK EXPERIENCE

深圳市起爆点信息技术有限公司
(Shenzhen Qibaodian Information Technology Co., Ltd.)   **Jul. 2023 - Present**

Full Stack Engineer   *Singapore, Remote*

- 深圳市起爆点信息技术有限公司 focuses on the development of cutting-edge software and algorithms aimed at stock market prediction.
- Single-handedly developed and deployed "[qibaodian.net](#)," a stock prediction SaaS platform currently serving multiple paying clients in the Chinese market.
    - Architected a comprehensive technology stack combining SvelteKit frontend, Python API, TimescaleDB for time-series data, BullMQ for task processing, and Redis caching.
- Engineered a scalable system architecture capable of processing real-time financial data while maintaining 99.5% uptime for end users.
- Implemented continuous feature development and performance optimization over two years, resulting in 200%+ increase in user retention and platform reliability.

SKILLS & INTERESTS

- **Skills:** User Experience (UX) Design; Creative Problem Solving; Analytical Skills; Teamwork; Critical Thinking; Data Structures; Communication; Design; Node.js; CSS; HTML; SQL; RESTful APIs; TypeScript; Python
- **Technologies:** SvelteKit; PostgreSQL; Redis; BullMQ; Flask; Git; Docker; Blender
- **Languages:** English; Mandarin Chinese
- **Interests:** DIY Home Projects; Photography; Music (Piano and Violin); Reddit