Honors

Explanatory text and formatting guide.

USACO Gold	National	9,10, 11
全球院士论坛	?	Second Prize

Activity List

Explanatory text and formatting guide.

Krypoto Tech Club

Founder, President.

9, 10, 11, 12

Designed and developed a dynamic website for THISDL's Activation Record, offering students and teachers a user-friendly platform to record and manage information efficiently. Had a regular discussing event every friday.

Click Mood

Founder, Software + Prompt Engineer

11, 12

Developed an iOS app using Swift and SwiftUI that lets users effortlessly track their moods. Built-in features include mood logging, intuitive feedback, and personalized mood tracking to foster mindfulness and emotional awareness.

Geek Agent : Computer-Us

Researcher, Member.

e Agent

11

Joined MIT's research team led by Zengyi Qin, serving as a highschool student researcher on the Geek Agent Project—a novel computer-use agent designed to streamline human-computer interactions through advanced AI technologies. Contributed in the data collection team.

Collaboration with Stepping Stone (Ongoing)

Collaborator.

11

Joined as an AI teacher for underprivileged students at Stepping Stone - a nonprofit charity organization that provides education to the underprivileged students- and then found that teaching by real humans has a lot of issues (unaligned quality, limited influence). Provided online school with teaching AI-agents (ongoing).

Volunteer at Stepping Stone

Volunteer, teacher

11

Teached at Stepping Stone for underprivileged students in ShangHai.

Context: There is a lot of labor inflow in ShangHai. However, their children are unable to use local educational resources. So, I we aim to help them.

Singularity Academy(Ongoing)

CEO, Founder.

11

Singularity Academy is an online AI-empowered educational platform, where people learn by doing. It is empowered by AI Principles, AI Dean, and AI teacher Agent. Serving as a whole day school, it empowers students to learn what they want with AI generated materials: the study plan the AI Principal Agent generated, the course plan and teaching plan the Dean planned, and the teaching video, quiz, teaching notes, and a guiding project that the AI Teacher Agent Generated. This will help underprivileged students to really learn what they need with an affordable cost.

Robotic Arm Project

Independent Developer

11

Reproduced and enhanced the DummyRobot inspired by Zhihui Jun.. Carried out complex mechanical processing including CNC, 3D printing, PCB production, and hardware integration. Programmed and tuned PID-based robotic control system; currently optimization with reinforcement learning techniques for improved precision and efficiency. Upgraded the control algorithm(kinematics) in the robotic arm to an innovative control algorithm ARL control

AI Weather Prediction

Independent Researcher

9

Implemented a linear regression model using ONLY NumPy to predict February weather patterns. Completed full report and published research online.

Web Development Projects	**Independent Developer**
9,10	Designed and deployed multiple websites including: 1. Official website for Tsinghua International School Daoxiang Lake (http://elp.thisdl-sip.cn) 2. Project showcase (http://studio.krypoto.top) **3. Personal hardware store (http://store.krypoto.top)** 4. AI Introduction site (http://ai.krypoto.top) 5. Personal blog (http://chrisdsasa.github.io) 6. Game website (http://game.krypoto.top)

Beijing Temples Map (Ongoing)

Founder

11

Technical Skill Development

Learner & Practitioner

9,10,11,12

- Programming: C++, Python, JavaScript, HTML/CSS, JAVA, Swift
- Software Engineering: Swift, Swift UI, Core Data, Apple Connect
- Frameworks: Bootstrap, React(Beginner)
- Backend: MySQL, nginx, Gin/Go, Flask

- Embedded Systems: C, Keil

- Hardware Engineering: PCB design, Fusion360, 3D printing

- AI/ML: NumPy, pandas, PyTorch

- Kinematics Algorithm Design: MATLAB

Non-academic Activities and Meaningful Experiences

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Activity 1   **Participant of BAAI conferences 2023,2024, 2025**

I've attended several conferences about the latest developments in AI both in academia and commercial.

Activity 2   **Participant of ZGC Forum 2024, 2025**

I've been taking care of Eric since he was born in 2007. I played the role of a second mom, changing his diapers, teaching him how to read Chinese and English, and tutoring him with elementary school math problems.

Activity 3   Take care of my sister Jiazhuo