Jiace (JC) Zhao

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY Berkeley, CA
Intended Computer Science Major *2030*
Fa26 Coursework: CS61A, CS61B, DataC8, Math53

TSINGHUA UNIVERSITY HIGH SCHOOL Beijing, China
Science Innovation Program student *2026*
Platinum Division, USA Computing Olympiad; SAT: 1560; AP Exams: Computer Science A (5), Macroeconomics (5), Microeconomics (5), Statistics (5), 2-D Art and Design (4), Calculus BC (5), Physics C: Electricity and Magnetism (5), Physics C: Mechanics (5), Physics 1 (5); AP Scholar with Distinction (2024, 2025)

EXPERIENCE

DESIGN INNOVATION INSTITUTE SHANGHAI Shanghai, China
Full-stack Engineer Intern *June 2026 – July 2026*

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, PostgreSQL, Prisma, Docker, Dokploy
Designed, developed, and deployed production platform https://dt.diis.org.cn/ across 2+ hackathons, serving hundreds of participants, judges, and audience members. Collaborated with DIIS designers to translate brand concepts and event requirements into responsive, accessible user experiences. Created Canvas animations, project galleries, responsive layouts, and compressed multi-image submission flows using React, TypeScript, and Tailwind CSS. Built submission, review, and voting workflows with weighted rankings, vote quotas, duplicate prevention, and ballot locking. Implemented role-based access using JWT, bcrypt, and Prisma; deployed with Docker, Dokploy, PostgreSQL, and Vitest coverage.

MIT COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE LABORATORY Cambridge, MA
Research Intern *Jan. 2025 – June 2025*

Co-authored "OSGym: A Super-Scalable Distributed Data Engine for Generalizable Computer Agents" (arXiv: 2511.11672) as the only high-school researcher on the team. Developed Python pipeline for automated generation, deduplication, and cleaning of computer-use agent training data, scaling dataset construction from manual authoring to programmatic production of 2,600+ multi-step tasks. Designed task taxonomy spanning OS, office, and cross-application workflows with calibrated 1–20 step complexity distribution, directly informing training data quality for the distributed engine that achieved 1,420 multi-turn trajectories per minute. Acquired end-to-end research skills: experiment design, dataset curation methodology, and iterative refinement through weekly syncs with MIT researchers.

TSINGHUA UNIVERSITY HIGH SCHOOL Beijing, China
Researcher at Science Innovation Program, advised by Mr. Rujie Wang *March 2024 – Feb 2025*

Proposed Adaptive Robust Learning (ARL) control algorithm integrating disturbance observer into iterative learning control framework, reducing trajectory tracking RMSE by 55% versus PID and 32% versus standard ILC. Constructed custom 6-DOF robotic arm with stepper motors, harmonic reducers, gripper, and depth camera; trained YOLO v10 on self-collected dataset achieving 0.98 mAP@0.5 for real-time nut and screw detection. Engineered full perception-to-control pipeline in Python — camera calibration, 2D-to-3D frame transformation, and inverse-kinematics-based grasping via ROS and OpenCV. Published findings as sole author in *Applied and Computational Engineering*, CONF-SPML 2025 (Feb 2025).

LEADERSHIP & ACTIVITIES

SINGULARITY VOICES Beijing, China
Founder & Host *June 2025 – Present*

Founded and host tech-focused interview podcast reaching 400K+ plays across platforms, featuring founders and researchers including Fellou's Xiaoteng Ma and OpenManus author FanSheng