Dayi Ethan Dong

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EDUCATION

Yale University, New Haven, CT; Class of 2024
- B.S. Engineering Sciences (Mechanical) and B.S. Computer Science; Cumulative GPA 3.89
- CPSC 201: Intro to Computer Science, CPSC 223: Data Structures & Programming Techniques, CPSC 323: Introduction to Systems Programming and Computer Organization, CPSC 202: Mathematical Tools for Computer Science, ENAS 194: Ordinary and Partial Differential Equations with Applications

Madison West High School, Madison, WI; Class of 2020
- Cumulative GPA 4.00
- 2020 US Presidential Scholar, National Merit Finalist, Dean's List Semifinalist (FIRST Robotics), National AP Scholar, All American Academic, All American Swimming, Scholar-Athlete Recognition, Wisconsin Academic Excellence Scholar

UW Madison, Madison, WI; Dual Enrollment during high school
- Cumulative GPA 4.00
- Math 234: Calculus – Functions of Several Variables, Math 340: Elementary Matrix and Linear Algebra, Computer Science 300: Programming II

RESEARCH EXPERIENCE

Yale University School of Engineering and Applied Science, *Student Researcher,* New Haven, CT, 2022
- Will conduct research in Professor Abraham's Intelligent Autonomy Lab on multi-agent robotic experiments and validating algorithms for safe active search and exploration

UW Madison Mechanical Engineering, *Research Intern*, Madison, WI, Summer 2019
- Redesigned, programmed, tested, and analyzed a rimless-wheel robot to understand energy efficiencies of hip-driven walking versus ankle-driven walking

WORK EXPERIENCE

Alexander Academy, *Academic Tutor,* Atlanta, GA, 2021
- Tutored high school students one-on-one in standardized tests

Birdwell Solutions, *Intern,* Madison, WI, Summer 2020 & Fall 2021
- Helped with front-end and back-end development on their mobile app
- Researched and logged data for clients
- Wrote technical documentation for clients' projects

West High School, *Academic Tutor/Planner*, Madison, WI, Summer 2020
- Assisted high-school students facing academic difficulties because of the COVID-19 pandemic
- Planned and created learning resources directed towards first generation low-income students

UniMatch, *Data Analyst & Marketing Coordinator,* International, Summer 2020
- Worked on a start-up with other high-school and undergraduate students to design a system to match students with their best-fit college

Hill Farm Swim Club, *Lifeguard,* Madison, WI, Summer 2019/2020
- Guarded the pool, taught swim lessons to young swimmers, opened and closed the pool

VOLUNTEER/LEADERSHIP EXPERIENCE

Code Haven, *Treasurer, Events Director, & Classroom Lead,* New Haven, CT, 2020-2021
- Managed finances and purchases
- Planned large interactive events for middle school students and educators
- Led a class of mentors to teach middle-school students Computer Science

FRC BadgerBOTS, *President*, Madison, WI, 2018-2020
- Led robot design, robot build, CAD, finances, match strategy, drive coach, team meetings, and logistics
- Led team to "Gracious Professionalism" Award by helping rookie teams from China and Minnesota finish their robots
- Organized a small team to attend the National Advocacy Conference in Washington DC for the first time
- Assisted the establishment of the first FRC teams in Venezuela and Ukraine

Study Llama, *Tutor,* Online, International, Summer 2020
- Tutored and helped students with ACT, SAT, SAT II, AP, and college admissions

Peer Tutoring, *Peer Tutor,* Madison, WI, 2017-2020
- Helped other students in my high school with various math and science classes

BadgerBOTS Robotics, *Volunteer/Event Coordinator,* Madison, WI, 2017-2020
- Volunteered at different outreach and science night events, helped out at regional FIRST Lego League events, managed various aspects of regional events

SKILLS

- **Computer Programing**: Java, C
- **Foreign Language**: English, Chinese – Mandarin (Fluent), Spanish (Basic)