

# Junhao Zhang

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## Education

### University of Illinois at Urbana-Champaign

Bachelor of Science in Mathematics & Computer Science

Champaign, IL

Expected Graduation: 2029

### Mayo High School

Weighted GPA: 4.75/4.00, SAT Score: 1580

Rochester, MN

Class of 2025

### University of Minnesota Talented Youth in Mathematics Program (UMTYMP)

Accelerated college mathematics: Math Analysis, Calculus I, II, & III

Rochester, MN

2018-2023

## Skills & Coursework

### Related Coursework

**CS 225** (Data Structures & Algorithms in C++)

**CS 128** (Intro to C++)

**CS 128 Honors** (Intro to Rust)

### Computer programming

Experience in Python, PyTorch, Rust, C/C++, HTML/CSS/JS, Node.js, Unity, and Blender.

**Languages:** Chinese (Native), Spanish (ACTFL Advanced Low)

## Research

**James, Jose K., M.D., Ph.D., Mayo Clinic** AI & Informatics – Department of Cardiovascular Medicine

2024-2025

### Research Mentorship

- Collaborated alongside mentor to research capabilities of the EchoCLIP model, based on OpenAI's CLIP model for determining the ejection fraction (EF) from echocardiograms.
- Worked with Mayo Clinic's Google Cloud Console, deploying EchoCLIP onto the Mayo cloud.
- Used the Stanford EchoNet-Dynamic Cardiac Ultrasound Dataset to analyze trends in the model.

## Experience

### Teacher's Assistant in Mayo High School AP Computer Science A

Rochester, MN

2023-2024

- Designed a grading tool to help grade students' tests and homework more efficiently
- Helped students understand CS concepts, Java programming, and homework
- Created interactive assignments to help students visualize data structures

### Violinist in Southeast Musician Youth Orchestra (SEMYO)

Rochester, MN

2015-2025

- Led the advanced orchestra as concertmaster in the region
- Performed in the SEMYO quartet, performed at community music events and senior centers

### Greater Twin Cities Youth Symphony (GTCYS)

Minneapolis, MN

2024-2025

- Played 2nd Violinist in the most advanced orchestra, conducted by Mark Russel Smith

### Volunteering

- Volunteered as a violinist and pianist at the Madonna Towers Senior Center
- Mayo Honor Society, 20 hours of volunteering per school semester

2022-2025

2023-2025

## Projects

### Standard Type ([github.com/cursorweb/standard-type](https://github.com/cursorweb/standard-type))

2022

- Collaborated with a friend to create the project for the MadeWithReplit Hackathon
- Created a typing game using Node.js and Express
- Took community feedback to fix security vulnerabilities and add new features

### Europa Language ([github.com/cursorweb/europa-lang](https://github.com/cursorweb/europa-lang))

2021-present

- Implemented a dynamic programming language in Rust
- Built and led a small community of maintainers as the project scaled

## Honors & Awards

- MadeWithReplit Hackathon, 2nd place
- Minnesota Winter Coding Competition, group 1st place
- Music Guild Scholarship Competition: strings Division, 2nd place
- Minnesota Music Teachers Association (MMTA) piano contest winner

2022

2021, 2022

2022

2022, 2024