

# Andrew Zhao

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## Education

### Carnegie Mellon University

B.S. Computer Science, Dean's List

May 2024

## Experience

### CMU 15-210 Parallel and Sequential Data Structures and Algorithms

Teaching Assistant

Fall 2022

- Lead weekly recitations and hold office hours on advanced data structures and parallel algorithm design

### Meta

Software Engineering Intern

Summer 2022

- Built a robust and failure-tolerant index creation engine to run and maintain long running workflows
- Improved reliability of indexes serving 50+ Petabytes of data at 700+ million queries per second
- Spearhead efforts to switch to a new workflow framework and introduced it to other engineers on my team

### CMU 15-112 Fundamentals of Computer Science

Teaching Assistant

Fall 2021

- Taught core CS principles to CMU students with varying degrees of STEM experience

### NASA Jet Propulsion Laboratory

Backend Web Development Intern

Summer 2021

- Improved network security and reliability for containerized microservices
- Integrated Istio onto Kubernetes clusters to enable canary deployments

## Projects

### Beat Slicer [47hao.github.io/beat-slicer.html](https://47hao.github.io/beat-slicer.html)

Fall 2020

- A Python OpenCV project, featuring efficient motion tracking and a self-written 3D engine
- Voted 1<sup>st</sup> place out of 450+ student projects

## Activities

### CMU Undergraduate Entrepreneurship Association (UEA)

Board Member, Growth Team

Fall 2020 – Spring 2022

- Created media and held campus events to promote student interest in tech startups

### CMU Engineering Student Council (ESC)

Fall 2021 – Spring 2022

- Coordinated event registration and swag distribution logistics for department-wide CIT Day event

### FIRST Robotics FTC Team 9866

Co-Founder, Team Captain

Fall 2020 – Spring 2022

- Created and lead 3 robotics teams to conduct STEM outreach, compete at state and world championships

## Awards

- Hack-112 Hackathon: 2<sup>nd</sup> Place Project
- SIEMENS Competition Regional Finalist

## Skills

- Python, C, Java, Go (golang), Thrift, JavaScript
- Docker, Kubernetes