Andrew Zhao

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Education

Carnegie Mellon University

B.S. Computer Science, Dean's List   May 2024

Experience

Meta

Software Engineering Intern   Summer 2022
- Created failure-tolerant index creation engine to improve reliability and operability of core infrastructure
- Spearhead efforts to switch to a new workflow framework and introduced it to other engineers on my team
- Collaborated with production engineers to design for scalability, reliability, and user friendliness

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 by replacing DNS routes with API calls

Laerdal Medical

Product Development Intern   Winter 2020
- Built a web-based auscultation simulator as part of a medical training ecosystem

Projects

Beat Slicer   47hao.github.io/beat-slicer.html   November 2020
- A Python OpenCV project, featuring efficient motion tracking and a self-written 3D engine
- Voted 1st place out of 450+ student projects

Awards

- 15-112 Fall '20 Term Project: 1st Place
- Hack-112 Hackathon: 2nd Place Project
- SIEMENS Competition Regional Finalist

Skills

- Python, C, Java, Thrift, JavaScript, HTML/CSS
- Docker, Kubernetes
- Solidworks, Autodesk Inventor, 3D Printing

Activities

CMU Undergraduate Entrepreneurship Association

Board Member, Growth Team   November 2020 - Present
- Create media and hold campus events to promote student interest in tech startups

CMU Engineering Student Council   September 2021 - Present
- Coordinated event registration and swag distribution logistics for department-wide CIT Day event

FIRST Robotics Team 9866

Team Captain, Co-Founder   2015 - 2020
- Lead 40+ students across 4 robotics teams, networked with sponsors to raise $15,000 per season