

Andrew Zhao

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Education

Carnegie Mellon University

B.S. Computer Science

May 2024

Experience

Citadel

Software Engineering Intern

Summer 2023

- Designed an AST-based query conversion system to migrate thousands of API calls
- Identified critical flaws in the initial idea, proposed a new solution, and successfully executed a major pivot
- Proactively investigated several design challenges to achieve a simple and performant implementation

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

CMU School of Computer Science

Teaching Assistant

Fall 2021

- 15-210: Lead recitations and helped students understand parallel algorithms and data structures
- 15-112: Taught core CS principles to CMU students with varying degrees of STEM experience

NASA Jet Propulsion Laboratory

Backend Web Development Intern

Summer 2021

Projects

Beat Slicer 47hao.github.io/beat-slicer.html

Fall 2020

- A Python OpenCV project with an efficient motion tracking system and self-written 3D engine
- Voted 1st 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: 2nd Place Project
- SIEMENS Competition Regional Finalist

Skills

- Python, Java, C++, Go (golang), JavaScript
- Docker, Kubernetes, Vert.x