Adam H. Kan

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EXPERIENCE

Pathak Research Group, Carnegie Mellon University - *Robotics Research Intern*
February 2025 - Present

- Implementing entire robot learning pipelines, from data collection to training to real-world inference
- Building robot policies that can complete mobile and dextrous manipulation tasks autonomously with minimal demonstrations
- Developing commercially viable training techniques for behavior cloning models in the most diverse and unstructured environments
- Designing and training VLAs with robot teleoperation and human data
- Integrating classical whole-body controllers with learned manipulation policies to generate smooth robot trajectories

Interactive Perception and Robot Learning Lab, Stanford University (Bohg Lab) - *Computer Vision Research Intern*
September 2022 - August 2023

- Coauthored TidyBot research paper (Cited by 400+), presented at the International Conference on Robotics and Automation in June 2023
- Developed modifications to ViLD object detection model with Wordnet and other semantic hierarchies to establish baseline performance for classification of previously unseen objects
- Researched and tested existing object detection models to find the models with the highest accuracy for detecting household objects
- Led formal computer vision research project for application in household robots
- Developed novel machine learning model utilizing an object detection and CNN pipeline to complete the task of unfolding cloths
- Achieved an 80% success rate improvement on the leading alternative method (developed by researchers at Columbia University)

Peninsula Bridge, San Mateo, CA — *Math Teaching Assistant*
June 2022 - December 2022

- Independently designed and taught an introductory programming course for 5th grade students
- Mentored underserved 4th-6th grade students in classroom and one-on-one environments

HERO Tent, CA — *Policy Intern*
January 2022 - March 2022

- Identified improvement areas for the California Child Protective Services program and provided community-oriented alternatives
- Wrote, edited, and submitted a policy brief that was accepted by the Oakland Reimagining Public Safety Commission

EDUCATION

Carnegie Mellon University School of Computer Science, *B.S. in Computer Science*
Class of 2028
GPA: 3.92

Relevant Coursework: Principles of Imperative Computation,, Principles of Functional Programming, Introduction to Computer Systems, Matrices and Linear Transformations

LEADERSHIP:

- Director of Events, Alexander Hamilton Society
- Teacher, TechNights

The Nueva School, San Mateo, CA - *Class of 2024*

LEADERSHIP:

- Co-Captain, Varsity Parliamentary Debate Team
- Co-Founder and Co-Captain, Sailing Team

AWARDS

- **Parliamentary Debate National Champion**, won the Tournament of Champions for the 2022-23 school year
- **CMU Dean's List High Honors** All Semesters
- **USACO (USA Coding Olympiad) Silver**, USACO competitor from 2020-2022

SOFTWARE FLUENCY

- **Java** (5,000+ lines)
- **Python** (10,000+)
  - **PyTorch**
  - **JAX**
  - **ROS**
- **JavaScript** (1,000+)
  - **React**
- **C++** (1,000+)
- **C**