

# Alex Hsia

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## EDUCATION

**Carnegie Mellon University** | Pittsburgh, PA

2021-2024

Bachelor of Science in Computer Science

GPA: 4.0/4.0

- Coursework: Computer Systems, Distributed Systems\*, Parallel & Sequential Algorithms, Algorithm Design\*, Machine Learning (Graduate), Deep Learning (Graduate), Advanced Natural Language Processing (Graduate)
- Leadership: Asian Student's Association (Financial Chair), Mixed Martial Arts Club Officer (PR Head), Sigma Alpha Epsilon Fraternity (Philanthropy Chair)

## EXPERIENCE

**Gait (YC F24)**

Aug 2024 – Current

Co-founder, CTO

San Francisco, CA

- Started out with integrating prompts into version history [↗](#)
- Currently building out an Excel chunking solution for RAG systems

**Jane Street**

May 2024 – Aug 2024

Software Engineer Intern

New York, NY

- Developed and extended firmwide software to help provide liquidity to financial markets

**Carnegie Mellon Language Technology Institute**

January 2024 – May 2024

Research Assistant | Multicomp Lab

Pittsburgh, PA

- Conducted research on bench-marking ML Engineering abilities of large language models

**Mercury**

May 2024 – Aug 2024

Backend Engineering Intern

New York, NY

- Streamlined customer onboarding by directing inputted data through API instead of going through third party vendor
- Created 1:N facial verification system that uses machine learning to detect cases of repeated fraud

**Vivo**

June 2019 – August 2019

AI Intern

New York, NY

- In the AI department of China's 2nd largest smartphone company, I implemented and compared the performances of Deep Reinforcement Learning Algorithms (e.g. DQN, A2C, PPO) on mobile games
- Secondary focus on Image Processing and Geometric Deep Learning

## PROJECTS

**LinearTransform** [↗](#)

- Created an interactive webpage in Javascript to visualize matrix multiplication; now used by the Singapore American School Math Department to help educate school of 4000+ students

**ShotAI** [↗](#)

- Created a program that uses Pose Estimation and an LSTM to train a made/missed free throw classifier, with the end goal of providing useful data-driven insight on how to shoot more accurately

## Leadership and Community Involvement

**Donut Dash**

October 2022 – Now

Staff Lead; Chairman

Pittsburgh, PA

- One of eight staff leads, and chairman for one of the largest greek life philanthropy events in the nation, helped raise over \$50,000 to support the Mario Lemieux Foundation

**Asian Students Association**

January 2022 – December 2022

Financial Chair

Pittsburgh, PA

- As head of fundraising for CMU's largest cultural organization (300+ members), raised over \$1000 by selling boba, lunar new year snack boxes, and snack grams

## SKILLS

**Programming Languages:** Python, OCaml, C, C++, Standard ML

**Tools & Frameworks:** Pandas, NumPy, PyTorch, SQL, Git, Linux, Bash