

Andy Yilin Tang

C++, Docker, GCP, Go, Kubernetes, Python (NumPy, Pandas, PyTorch, TF, etc.), JavaScript, React/TypeScript
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EDUCATION

Stanford University

September 2022 – June 2026

B.S. in Computer Science, GPA 3.9

Stanford, CA

- **Coursework:** MATH61CM, CS107 (Systems), Probability Theory (A+), Machine Learning (A+), Machine Learning Theory, Computer Vision, Robot Perception, Natural Language Processing, Reinforcement Learning
- **Involvement:** TreeHacks Organizer, Robotics Club President, Stanford Debate Society, Stanford Birdwatching Club

WORK EXPERIENCE

Genesis Therapeutics

June 2024 – Present

Intern

- Created **autoscaling serving architecture** for in-house ML models which process **thousands of molecules**.
- Improving **diffusion-based drug potency prediction** by training on molecular dynamics simulation data ([MISATO](#)).

Quilter

February 2024 – June 2024

Machine Learning Intern – Part-Time

- Benchmarked image-based architectures for generalization in **circuit board placement** with **reinforcement learning**.
- Designed routing-informed placement pipeline, outperforming existing heuristic-based placement on routability.

Replit

June 2023 – September 2023

Software Engineering Intern – Platform

- Architected and built [Replit Deployments](#) analytics, used by **thousands of websites**. See [blog post](#).
- Load-tested web proxy, NATS messaging, and GCP project creation with **millions of requests**.
- Developed LLM-powered Deployment debugger with **80% accuracy** and Replit AI agent prototype.

Cloudflare

June 2022 – August 2022

Software Engineering Intern – [Magic](#)

Champaign, IL

- Reduced latency on customer-facing API handling **millions of requests** by **96%** using **Go**.

RESEARCH EXPERIENCE

Stanford AI Lab (Intelligence through Robotic Interaction at Scale)

October 2023 – Present

Student Researcher, PI: Chelsea Finn

- Architected **novel robot policy adaptation module** using VLM reasoning capabilities, preprint: <https://arxiv.org/abs/2407.02666>, submitted to 2024 Conference on Robot Learning (CoRL).

Fermilab

April 2020 – June 2022

Student Researcher

Batavia, IL

- Generated and processed **two million** particle collisions (**C++/Python**), quantifying signal from theorized particles.
- Presented dark photon search results at the **American Physical Society** (April Meeting: Quarks to Cosmos).

University of Illinois Chung Lab

July 2019 – December 2021

Student Researcher

Champaign, IL

- Automated analysis of brain scarring from epilepsy, saving **one week per dataset**. Published in [PNAS 118\(51\)](#).

SELECTED PROJECT

Junior High Math Contest

January 2020 – August 2022

Contest Chair and Tech Lead

Aurora, IL

- Developed contest web platform from scratch using **Express**, **Bootstrap**, and **EJS templates** on **Google Cloud**.
- Coordinated eight-person team to run day-long in-person (2020, 2022) and virtual (2021, 2022) contests, involving a total of more than **700** students from across four states as well as dozens of volunteers.

SELECTED HONORS & AWARDS

- USA Computing Olympiad Gold, Top 150 at USA Physics Olympiad and US National Chemistry Olympiad