

EDUCATION

Georgia Institute of Technology, Atlanta, GA: *B.S. in Computer Science*

Aug. 2023 – May 2026

GPA: 4.0/4.0

SKILLS

Languages/ML: Python, Rust, C, Java, Go; PyTorch, vLLM, SGLang, Ray, AReaL, veRL
Systems: Linux, Docker, Kubernetes, AWS, FastAPI, React, SQLite

EXPERIENCE

- Georgia Tech — Undergraduate Research:** *Undergraduate AI Researcher*
- Aug. 2024 – Present
- Advisor: [Chao Zhang](#). LLM reasoning/agents. PRM-guided tree search with vLLM/SGLang and prefix caching.
 - RLHF on GSM8K with veRL (PPO/GRPO); multi-turn/tool agents in Docker sandboxes with reward-hacking mitigations; scaled with AReaL on Kubernetes.
- DuckAI:** *AI Researcher & Engineer*
- Aug. 2023 – Present
- DuckTrack:** cross-platform computer-use capture with sub-frame sync; adopted in [OSWorld](#) and [OpenCUA](#).
 - PRMBench:** built [annotation platform](#) (React + FastAPI + SQLite); improved labeling speed and agreement. TTS pipeline contributions incl. [insanely-fast-whisper](#).

SELECTED PROJECTS

- Tool-Integrated RL Agent Training System**
- May 2025 – Present
- Multi-agent, multi-turn RL for tool-using LLMs; terminal-first sandboxes per rollout; AReaL-based async training on Kubernetes; targeted SWE-Bench and broader domains.
- DuckTrack**
- Nov. 2023 – Present
- Precise, cross-platform capture of screen/keyboard/mouse; sub-frame alignment via native input API benchmarking and OBS synchronization.
- PRM Annotation Platform**
- Nov. 2024 – Jun. 2025
- Web app to label process rewards on multi-step CoT traces; side-by-side comparisons and QC; open-source dataset generation for PRMs.
- RecipeGPT (AIATL hackathon)**
- Nov. 2023
- Led 4; GPT-4V + RAG over curated recipes; FastAPI back end, React front end, Pinecone retrieval; supports nutrition constraints.
- Photo Archive with ImageBind**
- Dec. 2023 – Jan. 2024
- 200k-photo self-hosted search via multimodal embeddings; precision-focused face clustering and automated iCloud sync.
- AlphaEvolve Extensions**
- May 2025 – Sept. 2025
- Replicated circle-packing; added combinatorics/compiler tasks; upstreamed improvements with [OpenEvolve](#).

PUBLICATIONS

- SO-GPT-4: Evaluating GPT-4 on Stack Overflow Question Answering**
- Jun. 2023
- Compared GPT-4 answers to human/accepted answers on Stack Overflow-style QA with preference-based evaluation.
 - Found GPT-4 responses often preferred or on par with human answers; early evidence of viability for developer Q&A.

LEADERSHIP & HONORS

- AI Safety Initiative (AISI)**
- 2024 – Present
- Active member; organized/led discussions and events with external speakers (e.g., METR, Redwood Research).
- GT Drehmal (Club Lead)**
- 2024 – Present
- Lead dev/community organizer for a large RPG Minecraft map; manage infra, contributors, and release cadence.
- Georgia Tech Undergraduate Research Profile**
- Nov. 2025
- Featured by GT UROP for work on LLM RL and agent systems: [Researcher Profile](#).