

## EDUCATION

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

Aug. 2023 – May 2026

GPA: 4.0/4.0

## SKILLS

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**Languages/ML:** Python, Rust, C, Java, Go; PyTorch, vLLM, SGLang, Ray, AReaL, veRL

**Systems:** Linux, Docker, Kubernetes, AWS, FastAPI, React, SQLite

## EXPERIENCE

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**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

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**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

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**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

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**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](#).