

Sarah Zhong

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EDUCATION

Cornell University

Ithaca, NY

B.S. Computer Science; B.S. Electrical & Computer Engineering GPA: 3.3

August 2022 – May 2026

EXPERIENCE

Anduril Industries, ML Infrastructure

Costa Mesa, CA

Software Engineering Intern

June 2026 – August 2026

- Centralized lifecycle management for 100+ CV models by building a Postgres-backed registry with APIs and data models for metadata, ownership, and deployment readiness.
- Shipped developer tooling for the registry across a TypeScript web UI, Rust CLI, and Python SDK using Palantir Conjure-generated API clients.
- Developed CV model deployment automation using HITL machines, Nix, and Docker to standardize reproducible packaging and rollout workflows for deployed systems.
- Extended an LLM-based autotagging workflow for CV training data to support video inputs and generated summaries, broadening automated labeling beyond image-only datasets.

Strobe Power

Brooklyn, NY

IoT Software Engineering Intern

May 2025 – August 2025

- Brought 2 customer sites online by deploying an updated Strobe Controller, a Raspberry Pi-based IoT appliance for integrating DERs into Strobe's virtual power plant platform.
- Developed Linux-based health and connectivity monitoring tools using Bash, cron, and Python, publishing real-time telemetry via MQTT.
- Iterated on the controller's weatherproof enclosure in OnShape, integrating status LEDs and designing an I/O panel for Modbus TCP and RS-485 DER communication.

CUAir, Cornell University Unmanned Air Systems

Ithaca, NY

Electrical Subteam Lead

October 2022 – May 2026

- Led an 8-person electrical subteam developing avionics, wiring, and power systems for an autonomous aerial vehicle.
- Designed and built (12ft wingspan, 55lbs) aircraft wiring harness, selecting improved materials and crimping/manufacturing methods that eliminated rework from faulty wiring and prevented in-flight electrical failures.
- Increased power-to-weight ratio by 13% via high-voltage LiPo and optimized wiring layout.

PROJECTS

Autonomous Drawing Car | C, Raspberry Pi Pico W, UDP, VGA, PWM

Fall 2025

- Built a dual-Pico W autonomous drawing system that converts mouse-drawn VGA waypoints into wireless robot motion.
- Implemented the UDP communication system between PC-side and car-side Pico Ws, transmitting waypoint data for IMU-guided motor control.

Anti-Sleep Glasses | C

May 2024

- Developed semi-serious glasses that use IR sensors to detect eye closure and trigger an alarm with snooze.
- Directed and filmed a demo video with 1,000+ views to showcase functionality.

Gimbal Board | C++, Altium Designer

January 2023 – May 2024

- Designed 2-axis gimbal PCB; wrote firmware for IMU orientation sensing and PWM motor control.

Pomopals | Next.js, MongoDB

October 2024

- Built global Pomodoro timer web app with task tracking, AI chat, and Spotify integration.

AWARDS

Cornell Engineering Technology Commercialization Innovation Competition 1st place

CUAir: 2nd in Mission and Design in June 2025

Big Red Hacks 2024: Pomopals won People's Choice Award