

# Alex Zhang

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## Education

### The Ohio State University

Columbus, OH | May 2026

B.S. in Computer Science & Engineering, AI Specialization

GPA: 3.73/4.00

- 4 Year Maximus Scholarship recipient (Top 3% of Class)

**Undergraduate Coursework:** Data Structures & Algorithms, Networking, Operating Systems, Web Apps, Databases

**Graduate Coursework:** Mobile Apps, Neural Networks, Parallel Programming

## Experience

### Infinity Labs (AI/Simulation Defense Startup) | Software Engineering Intern (Full Stack)

May 2025 – Aug 2025

- Early member (part of the first intern class) at a leading Defense startup specializing in AI/Modeling & Simulation that is backed by DoD and does \$30M in annual revenue (~70 engineers), was 1 of 2 interns that received a return offer from the previous year.
- Owned the end-to-end design and implementation of a full-stack internal security tool for visitor access control across 4+ office locations, working cross-functionally with PMs and security stakeholders to translate requirements into a production system. (Next.js)
- Investigated and resolved a complex deployment failure when deploying a Next.js application to a secure enclave by tracing build outputs, environment variables, and runtime assumptions to align with enclave constraints.

### Infinity Labs (AI/Simulation Defense Startup) | Software Engineering Intern (AI/Robotics)

May 2024 – Jan 2025

- Designed computer vision system of an autonomous robot using RGB cameras and 3D LiDAR on NVIDIA Jetson.
- Researched segmentation and loop closure algorithms for a real-time SLAM pipeline which reduced navigation errors by 70% and increased accuracy by 30%.
- Instrumented a robotic system with real-time metrics and camera telemetry, building an interactive dashboard to monitor sensor fusion outputs and debug system behavior.
- Continued work into Fall/Winter 2024 to finish work on a LiDAR based semantic segmentation algorithm.

### Data Structures & Algorithms | Teaching Assistant

Columbus, OH | Jan 2024 – May 2024

- Led 2 office hours and 2 recitations per week, teaching concepts like heaps, hash maps, disjoint sets, B-Trees, etc.
- Improved average exam scores by 10% through one-on-one tutoring and personalized feedback.

## Projects

### Revolution UC, 1st Place | Flutter, Python, Media Pipe Face Mesh

Feb 2024

- Won 1st Place and \$2000 out of 171 projects by creating a Canvas-like educational platform that provides personalized supplemental material and webcam proctoring with 95% accuracy.

### Hack AI, 2nd Place | Dart, Flutter, Python, OpenAI API, YOLO, Postgres

Feb 2024

- Awarded 2nd Place and \$1,000 out of 300 participants by creating a cross-platform app that uses object detection and LLMs to assess food safety from user-submitted images.

### Engineering Robotics Competition, Top 4 Finisher | C

Jan 2023 - May 2023

- Finished semifinalist out of 64 teams for designing an autonomous, task-driven robot.
- Implemented PID controller for precise navigation, increased precision to be within 9 mm of desired position.

## Skills

**Languages:** Python, JavaScript/TypeScript, Java, Ruby, Kotlin

**Frameworks:** React, Next.js, Flutter, Flask, PyTorch, NVIDIA Jetson, Node.js, Jetpack Compose

**Technologies:** REST APIs, SLAM, Semantic Segmentation, LiDAR, Unix/Linux, Agile Development, Full-Stack Development, Machine Learning, Backend Development, Postgres, Next Auth

## Extracurriculars

### Lambda Phi Epsilon | President

May 2024 – May 2025

- Led 5-member board to win Chapter of the Year and achieve Silver National Status out of 75+ chapters.
- Raised \$2000 for the National Marrow Donor Program through a charity gala with 200+ people in attendance.
- Organized 9 community service projects, contributing 500+ service hours and impacting 3 local organizations.