

Alex Zhang

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Education

The Ohio State University	<i>Columbus, OH</i> May 2026
B.S. in Computer Science & Engineering, AI Specialization	GPA: 3.757/4.00
- 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	<i>Columbus, OH</i> 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 top 4 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.	