

Haotian Li

517-764-8261 | lihao9440@gmail.com | linkedin.com/in/haotian-li24 | github.com/haotianli24

EDUCATION

University of Michigan

Bachelor of Science in Computer Engineering

Ann Arbor, MI

Expected May 2027

- GPA: 3.6/4.0
- Relevant Coursework: Data Structures and Algorithms, Computer Organization, Web Systems
- Activities: Michigan Blockchain, Collaborative Lab for Advancing Work in Space

EXPERIENCE

Software Developer Intern

The Corso Group

Ann Arbor, MI

Jun. 2025 – Current

- Built OpenCV-based deidentification system to blur sensitive content in surgical videos; manually annotated 100,000+ frames using CVAT with 98% accuracy for privacy-compliant medical AI datasets
- Developed automated web scraping and video processing pipeline using Python, yt-dlp, and OpenAI Medical Whisper to extract and transcribe 2,000+ surgical videos, segmenting surgical procedures with 90% accuracy for LLM training datasets
- Led a team of 4 annotators on HPC infrastructure, implementing automated XML-to-video processing workflows for efficient medical training dataset production

Augmented Reality Software Developer

Collaborative Lab for Advancing Work in Space

Ann Arbor, MI

Sep. 2024 – May 2025

- Built voice assistant feature using C# and OpenAI Whisper, achieving 98% reduction in task completion time (300 to 5 minutes) for AR-based space work applications
- Designed REST API communication framework between Unity AR application and TCC web server, enabling real-time data synchronization and backend service integration
- Collaborated with a team of 20 to implement SDLC methodologies and Agile practices, facilitating regular sprints to enhance communication and project tracking.

PROJECTS

OnionUSD-P

July 2025 - Current

- Secured 1st Place (\$2,500) at Solana hackathon developing enterprise stablecoin platform with React TypeScript frontend, Node.js backend microservices, PostgreSQL Database, and Solana Gill smart contracts deployed on Surfnets blockchain
- Developed an automated stablecoin protocol (pUSD) featuring algorithmic 1:1 peg stability, fee optimization algorithms, and transaction revocation capabilities for institutional treasury management
- Implemented payment system with Solana Pay integration, real-time dashboard analytics, and Firebase-secured multi-sig wallets supporting concurrent corporate and employee interfaces

AI Posture Corrector

Sept. 2024 - Nov. 2024

- Designed and developed an AI posture detection web-app using HTML and Tailwind CSS for the frontend, and Flask with Javascript for the backend.
- Built and labeled a dataset of 500+ images via Roboflow, achieving 98% model accuracy.
- Integrated a custom pipeline using OpenAI to generate real-time posture correction recommendations.
- Developed a RESTful API from scratch to seamlessly translate JSON data from Baml LLM into actionable Python routines, ensuring smooth data processing and API communication.

SKILLS

Languages: Python, C++, JavaScript, TypeScript, Java, C, SQL, HTML/CSS

Frameworks: Node.js, Express.js, Flask, React, Firebase, AWS (RDS, Lambda), Docker

Developer Tools: Git, Linux, VS Code, IntelliJ, PyCharm, Visual Studio, Figma

Libraries: Pandas, NumPy, OpenAI API, Whisper, Roboflow, TailwindCSS, BAML, PyGame