

Lianhao Zheng

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EDUCATION

Northwestern University

Evanston, IL

Concurrent B.A. and M.S. in **Computer Science** (GPA **3.86/4.00**)

June 2026

- **Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Artificial Intelligence, Design & Analysis of Algorithms, Computer Systems, Scalable Software Architectures
- **Activities:** Dean's List (**6/6**) | QuestBridge Scholar | LEDA Career Fellow | NU Bioscientist Grant Award | CodePath Tech Fellow | Society of Asian Scientists and Engineers (Head of Cultural)

Meta

Menlo Park, California

Above and Beyond Computer Science (ABCS) Program

Jan 2024 - Feb 2024

- **Relevant Coursework:** Applied Data Structures, Careers in Tech

TECHNICAL SKILLS

Languages: Python, C, C++, TypeScript, JavaScript, Bash, SQL

Frameworks / Tools: Git, Docker, AWS, Node, React, React-Native, Expo Go, Express, MySQL, Figma, Jira

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Jun. 2024 – Aug. 2024

Project Olympus LLC

Evanston, IL

- Collaborated with a team of three to develop and deploy a full-stack application for athlete workouts using **Next.js**, **React**, and **TypeScript** for a **200+** user startup
- Performed extensive integration testing using Docker and Postman to ensure seamless **REST API** connectivity with the Redis and PostgreSQL databases prior to front end integration
- Prioritize the prompt release of deliverables by participating in sprints using an **agile** framework

Undergraduate Teaching Assistant

Sep. 2023 – Aug. 2024

Northwestern University Department of Computer Science

Evanston, IL

- Advised **400+** students in Fundamentals of Computer Programming and Intro to Web Dev for 6-10 hours weekly
- Collaborated with Professor Connor Bain to give feedback on student code and examinations

Software Engineer Intern

Jan. 2024 – Jun. 2024

Institute of Electrical and Electronics Engineers

Evanston, IL

- Developed a mobile application using **React Native** and **Expo Go**, featuring a campus map, building profiles, and a status update page to provide real-time campus occupancy information
- Connected the Flask and MySQL backend for user authentication and crowd density updates using a **REST API**
- Directed a pilot study on **100+** users, gathered feedback, and made improvements based on user preferences

Data Science Intern

June 2023 – Aug. 2023

Mentor: Keara Lane, PhD

Evanston, IL

- Developed a **Python3** and Fiji-ImageJ based pipeline, leveraged Globus Data Management and High Performance Computing Clusters (**HPC**) to classify **9000+** images of macrophages resulting in **78%** improvement on accuracy
- Created **Bash Scripts** to automate workflows for parallel image processing and analysis with Deep Learning Models on **HPC**, utilizing **Git** and **GitHub** version control to facilitate collaboration on the codebase

PROJECTS

Web Portfolio | React, Tailwind CSS, Netlify

- Leveraged **Three.js** and **React Three Fiber** to develop immersive 3D graphics, Framer Motion for animations, and **Tailwind CSS** for more visually appealing design
- Incorporated responsive design and optimization techniques like Suspense and Preload

Mask Up | FaceMesh Detection API, JavaScript, Git

- Architected a Face tracker that utilizes **Face mesh detection API** to create masks that follows user movements
- Utilized **P5.js** and **Vue.js** to incorporate animations and interactive graphics that enhances user experience