

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, Scalable Software Architectures, Operating Systems, Software Quality Engineering
- **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 Events)

Meta

Menlo Park, CA

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, HTML

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

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Jun. 2024 – Aug. 2024

Olympus LLC

Chicago, IL

- Engineered a full-stack application for athlete workouts using **Next.js**, **React**, and **TypeScript**
- Leveraged **Radix UI**, **Lucide-React**, and **Styled Components** to design and implement intuitive front-end components for uploading workout .xlsx templates and workout photos
- Performed extensive manual testing using Postman to ensure seamless **REST API** connectivity with the Redis and PostgreSQL databases prior to product deployment
- Prioritized prompt release of deliverables through **Jira**, weekly sprints, and daily stand ups

Undergraduate Teaching Assistant

Sep. 2023 – Aug. 2024

Northwestern University Department of Computer Science

Evanston, IL

- Conducted code reviews and held office hours for **400+** students in Fundamentals of Computer Programming and Introduction to Web Development
- Collaborated with Professors 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 based on the Google Maps API, 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**
- Led a pilot study on **100+ users**, improved visual component of building profile and user login from user feedback, resulting in a **30%** increase in user satisfaction scores

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
- Utilized **Bash Scripts** and **SLURM** 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

lianhaoz.netlify.app

- 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

mask-up.glitch.me

- 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