

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 Testing
- **Activities:** Dean's List (**6/6**) | QuestBridge Scholar | LEDA Career Fellow | NU Bioscientist Grant Award | CodePath Tech Fellow | Meta ABCS Fellow | Society of Asian Scientists and Engineers (Head of Cultural Events)

TECHNICAL SKILLS

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

Frameworks: Git, Node, Express, React, React-Native, MySQL, JUnit

Tools: AWS, Docker, Expo Go, Figma, MongoDB, Firebase, Jira, Gradle

PROFESSIONAL EXPERIENCE

Software Engineer Intern

June 2024 – Aug. 2024

Olympus LLC

Chicago, IL

- Built a **Next.js**, **React**, and **TypeScript** full-stack application centralizing **200+** workout templates, optimizing training plans for increased athlete performance
- Implemented front-end components using **Radix UI**, **Lucide-React**, and **Styled Components** to streamline uploading process for workout .xlsx templates and photos
- Performed extensive manual testing with **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

Data Science Intern

June 2023 – Aug. 2023

The Lane Lab (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 codebase collaboration

Undergraduate Teaching Assistant

Sep. 2023 – Present

Northwestern University Department of Computer Science

Evanston, IL

- Conducted code reviews and held office hours for **400+** students in Fundamentals of Computer Programming, Introduction to Web Development, and Scalable Software Architecture
- Collaborated with Professors to give feedback on student code and examinations

PROJECTS

OHours | *React, Vite, Tailwind CSS, Shadcn, Firebase*

ohours.web.app

- Engineered an intelligent office hour queuing system with a **Non-preemptive Static Priority Scheduler** to help teaching assistants more efficiently manage questions with reduced wait time by **40%**
- Generated unit tests with **Jest** and **React Testing Library**, utilizing **Vitest** for dependency mocking to enhance test coverage, accuracy, and component reliability

CrowdScope | *React Native, Expo Go, Git*

- Created a mobile app delivering real-time building occupancy information through crowdsourced data
- Led a pilot study on **100+ users**, improved visual component of building profile and user login from user feedback, increasing user satisfaction scores by **30%**

Mask Up | *FaceMesh Detection API, Vue, P5.js*

mask-up.glitch.me

- Architected a Face tracker leveraging the **Face mesh detection API** to create masks following user movements

Web Portfolio | *React, Tailwind CSS, Netlify*

lianhaoz.netlify.app

- Leveraged **Three.js** and **React Three Fiber** for immersive 3D graphics and Framer Motion for animations