

# Lianhao Zheng

646-920-6854 | [lianhaoz06@gmail.com](mailto:lianhaoz06@gmail.com) | [linkedin.com/in/lianhao-zheng](https://www.linkedin.com/in/lianhao-zheng) | [github.com/LianhaoZ](https://github.com/LianhaoZ) | [lianhaoz.netlify.app](https://lianhaoz.netlify.app)

## EDUCATION

### Northwestern University

Evanston, IL

Concurrent B.A. and M.S. in **Computer Science** (GPA 3.89/4.00)

June 2026

- **Relevant Coursework:** Data Structures, Algorithms Design, Databases, Distributed Systems, Machine Learning, Scalable Software Architectures, Operating Systems, Software Quality Testing, Networking, System Security
- **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, Rust, Go

**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](https://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](https://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](https://lianhaoz.netlify.app)

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