Lianhao Zheng

646-920-6854 | lianhaoz06@gmail.com | linkedin.com/in/lianhao-zheng | github.com/LianhaoZ | lianhaoz.netlify.app

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, Cloud Infrastructure, 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
Frameworks / Tools: Git, Docker, AWS, Node, React, React-Native, Expo Go, MySQL, Figma, 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**
- 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
- 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*
- 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