Jianhong Li

U.S. Citizen | Brooklyn, NY, 11219 | ljhg@umich.edu | 718-496-3282 | GitHub | Portfolio | LinkedIn

EDUCATION

University Of Michigan **Ann Arbor, MI**

B.S.E. in Computer Science, **GPA: 3.87/4.0** *Aug 2023 - May 2027*

- Relevant Courseworks: Data Structures & Algorithms, Advanced Algorithms, Computer Security, Computer Organization, Foundations of Computer Science, Logic Design.

WORK EXPERIENCE

Kodely **Remote**

Software Engineer, Intern *Sept 2024 - Present*

- Led full-stack development of NalaAI, an AI-powered classroom platform, delivering features including real-time avatar **lip-sync** animation, LeetCode-style **coding editor**, and intelligent **quiz generation**, — used by over 2,000 students across 200+ schools.
- Scaled and maintained Kodely's management apps using **React.js**, **TypeScript**, and **Nest.js**, automating 45% of administrative workflows for school managers coordinating program scheduling and operations.
- Upgraded platform authentication systems by migrating from self-managed JWTs to **Firebase Auth** across all applications, improving security, scalability, and user experience.
- Designed and managed a production-scale **PostgreSQL** database supporting 200+ partner schools, 500+ instructors, and educational data like lessons, translations, and student progress.
- Collaborating in a cross-functional team of four in **Agile** sprints with **Git**-based code reviews.

Hong Kong Asian Supermarket **McAllen, TX**

Full-Stack Engineer, Intern *Jun 2024 - Aug 2024*

- Led full-stack development of the company's first website using **React.js** and **Express.js**, driving 1,500+ monthly visits and a 4.5% increase in sales.
- Designed and built an **SQLite3** database of 250+ products with keyword-based search, improving user navigation and product discoverability.
- Deployed backend and frontend servers with **Docker**, **Google Cloud Run**, and **Nginx** achieving 99.9% uptime.
- Optimized **SEO** using **Google Search Console**, boosting Google rankings to the top search result.

PROJECTS

Michigan Data Science Team

- Utilized Reddit API, PRAW, in **Python** to gather over 15,000 data points on the CS job market.
- Analyzing in a team of three to extract key features and transforming the data into a structured data frame for machine learning models.
- Developed, trained, and evaluated language learning models (**Markov** and **Naive Bayes**) to perform sentiment analysis to make predictions on future job prospects related to computer science majors.

Type Challenger | type-challenger

- Collaborated in a team of two to develop a web application in **React.js** and **Express.js** for tracking typing speed of users. Designed a simple and intuitive UI enhanced user experience and engagement.
- Engineered robust server-side functionality and optimized data storage and retrieval of word requests with **SQLite3**, improving query performance by 25%.

TECHNICAL SKILLS

Languages: C++, JavaScript, TypeScript, Python, Java, SQL, HTML/CSS

Frameworks/Libraries: React.js, Nest.js, Next.js, Node.js, Express.js, Tailwind CSS, Rive React, MikroORM

Technologies & Tools: Docker, Git, Firebase, Google Cloud Platform, Microsoft Azure, PostgreSQL, SQLite, Linux