Jianhong Li

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EDUCATION

University Of Michigan   Expected May 2026

B.S.E. in Computer Science, **GPA: 3.87/4.0.**   *Ann Arbor, MI*

- Relevant Coursework: Data Structures and Algorithms, Computer Security, Computer Organization.
- In-Progress Coursework: Algorithms, Foundations of Computer Science, Logic Design.

WORK EXPERIENCE

Kodely   Sept 2024 - Present

Software Engineer, Intern   *Remote*

- Developing and maintaining Kodely's management app using **Nest.js** and **React.js** to automate 45% of administrative tasks, enabling managers to schedule, organize, and oversee program activities.
- Collaborating in an **Agile** environment in a team of four to ensure efficient development cycles, clean **Git**-based code reviews, and rapid feature deployment.
- Managing a relational **PostgreSQL** database handling data for over 200 schools and 800+ instructors, ensuring efficient data storage, retrieval, and security of large-scale educational information.
- Migrated user authentication from self-managed JWT token verification to **Firebase Auth** across all Kodely platforms, significantly enhancing security, scalability, and overall user experience.
- Creating an interactive AI avatar in **Rive React** with real-time lip-sync capabilities, utilizing **Microsoft Azure**'s text-to-speech API to enhance user engagement and accessibility.

Hong Kong Asian Supermarket   Jun 2024 - Aug 2024

Full-Stack Engineer, Intern   *Mcallen, TX*

- Created and led the full-stack development of the company's first website with **React.js** and **Node.js**; attracting 1,500+ visits monthly and boosted sales by 4.5%.
- Created and managed an **SQLite3** database that stored over 250 product informations with search functionality, enabling users to look for products.
- Streamlined deployment process using **Docker** and **Google Cloud Run** to seamlessly serve the backend, and set up Digital Ocean droplet with Nginx to serve frontend, achieving 99.9% uptime.
- Tracked search performance using Google Search Console and optimized **SEO**, improving Google page rankings to be 1st on many pages. Implemented HTTPS with Certbot to ensure secure and reliable API access.

PROJECTS

Michigan Data Science Team

- Leveraging Reddit API and **web scraping** technique 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 and maintain a web application in **React.js** and **Node.js** for tracking typing speed of the user. Designed a simple and intuitive UI that enhanced user experience and engagement.
- Engineered robust server-side functionality in **Express.js** and optimized data storage and retrieval of word requests with **SQLite3**, improving query performance by 25%.

SKILLS

Languages: C++, Javascript, Typescript, Python, Java, SQL, Web Scripting Language (HTML & CSS).
Technologies: React.js, Node.js, Nest.js, Express.js, Next.js, Docker, Git, Firebase, Google Cloud Console, database(Postgresql, SQLite), Linux, Pandas, Matplot, Jupyter Notebook.
Skills: Full-Stack developer proficient in both frontend and backend. Experienced with web deployment.