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 Courseworks: Data Structures and Algorithms, Computer Science Pragmatics, Discrete Mathematics.
- In Progress: Web Systems, Computer Network, Intro to Computer Organization, Intro to Computer Security, Foundations of Computer Science.

WORK EXPERIENCE

Kodely   Sept 2024 - Present
Software Engineer, Intern   *New York, NY*
- Developing, in a team of four, a full-stack management app for school managers using React, TypeScript, and Nest.js, collaborating in an Agile environment to ensure efficient development cycles, clean code reviews, and rapid feature deployment.
- Managing a PostgreSQL database handling data for over 1,000 schools, ensuring efficient storage, retrieval, and security of large-scale educational data.
- Maintain and update a React Native mobile application designed to assist teachers with lecture inspiration and classroom organization, decreasing administrative workload by 8 hours per week.

Hong Kong Asian Supermarket   Jun 2024 - Aug 2024
Full-Stack Engineer, Intern   *Mcallen, TX*
- Led the full-stack development of the company's first website with React.js and Node.js; the website attracted over 2,500 unique visits in the first month and boosted sales by 4.5%.
- Created and managed an SQLite3 database that stored over 200 product informations with search functionality, enabling users to query 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.
- Configured DNS and optimized SEO, improving Google page rankings to first page and tracked performance with Google Search Console. Implemented HTTPS with Certbot to ensure secure and reliable API access.

PROJECTS

Type Challenger | [type-challenger](#)
- Collaborated in a team 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 and optimized data storage and retrieval of word requests with SQLite3, improving query performance by 25%.

Michigan Data Science Team
- Leveraged Reddit API and web scraping technique to gather over 120 Reddit posts, analyzing in teams to extract key features and transforming it into a structured dataset format for machine learning model training.
- Developed, trained, and evaluated the machine learning models to generate predictions and insights based on extracted Reddit data.

SillySQL
- Wrote a program in C++ to emulate a basic database with an interface based on a subset of a standard queries.
- The program creates a shell that allows users to interact with a single database that is processed in memory and destroyed when the program is quit by the user.

SKILLS AND LANGUAGES

Skills: Full-Stack developer proficient in both frontend and backend. Experienced with web deployment.
Languages: C++, Javascript, Typescript, Python, Java, SQL, ARM Legv8, Web Scripting Language (HTML & CSS).
Technologies: React.js, Node.js, Express.js, Next.js, Nest.js, Tailwind.css, Docker, Linux, Google Console, Git, database(Postgresql, firebase, SQLite), Pandas, Jupyter Notebook.