Jianhong Li

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EDUCATION

University Of Michigan   **Ann Arbor, MI**
B.S.E. in Computer Science, **GPA: 3.80/4.0**   *Aug 2023 - May 2027*

- Completed: Advanced Algorithms, Data Structures & Algorithms, Computer Organization, Computer Security
- In-Progress: Operating Systems, Computer Networks, Distributed System, Compiler Construction

WORK EXPERIENCE

Amazon - Project Kuiper   **Northridge, CA**
Software Development Engineer Intern   *May 2025 - Aug 2025*

- Built a **CLI tool** in **Go** for interfacing multiple service APIs; accelerated the development process by assisting engineers with configuring virtual networks and **troubleshooting** network connectivity.
- Implemented and deployed a **production-ready** feature to display real-time network traffic metrics on the customer dashboard. Designed a **Smithy**-defined **REST API** and **Kotlin** backend to query **AWS CloudWatch** with sub-second latency.
- Achieved 95% test coverage by writing comprehensive **unit** and **end-to-end** tests using **JUnit** and **MockK** (**Kotlin** backend) and **Cypress** (frontend).
- Automated customer onboarding by configuring **IAM** role creation with internal permissions using **AWS CDK**, reducing manual setup time by 80%.
- Collaborated with **functional** teams in **Agile** sprints with iterative feature delivery, leveraging **Git**-based code reviews for quality and version control.

Kodely & NalaAI   **Remote**
Software Engineer Intern   *Sept 2024 - May 2025*

- Led full-stack development of NalaAI, an AI-powered classroom, 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 with program scheduling and operations.
- Upgraded platform authentication systems by migrating from self-managed **JWT tokens** 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.

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.

TECHNICAL SKILLS

Languages: C++, Javascript, Typescript, Kotlin, Java, Go, Python, SQL (Postgres), HTML/CSS
Frameworks & Library: React, Nest, Node, Express, Tailwind, Smithy, Rive React, Cobra, Log4j
Cloud & Developer Tools: AWS (IAM, Lambda, CDK, Route53, Cognito, CloudWatch), Firebase, Google Cloud (Cloud Run, Artifact, Search Console), Docker, Git, Gradle, VS code, IntelliJ, Linux, CI/CD pipeline
Testing & QA: JUnit, MockK, Jacoco, Cypress