LI HE

lihe57156@gmail.com | (571) 267-0952 | GitHub | LinkedIn | Atlanta, GA

EDUCATION

Georgia Institute Of Technology, Atlanta, GA   Aug 2024 - May 2026
MS in Computer Science

Arizona State University, Tempe, AZ   Jan 2020 - Dec 2023
BS in Computer Science, summa cum laude   **GPA**: 4.00/4.00

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, Python, C++, C#, HTML/CSS, SASS, SQL, Swift, MATLAB
- **Specialized:** React, Vue, Redux, Next, Astro, Spring Boot, Node, Express, MyBatis, Docker, WebSocket
- **Database:** MySQL, PostgreSQL, MongoDB, Redis, AWS-S3
- **Other:** Git, Maven, OAuth 2.0, JSON, XML, Swagger, i18next, New Relic

PROFESSIONAL EXPERIENCE

China Telecom Corporation Limited | *Leading global telecommunications company*   China
Software Engineer Intern   Mar 2024 - Jun 2024

- Developed a large-screen data display system with **Vue.js**, **Node.js** and **ECharts** for Fenyi Industrial Park, addressing the need for real-time monitoring, increasing main business revenue by 7% across over **60** industries.
- Engineered a salary and KPI management system with **Spring Boot** and **MyBatis Plus** to address inefficiencies in HR operations by implementing batch processing and Role-Based Access Control (**RBAC**). Leveraged **MySQL** and **Redis** to enhance performance, resulting in a 13% reduction in processing time and a 16% increase in efficiency.
- Utilized **Spring Security** with JWT tokens and **NextAuth.js** to implement secure login authentication. Developed RESTful APIs using **Spring MVC**, addressing security vulnerabilities and enhancing system functionality.
- Followed Agile methodologies throughout the SDLC, actively communicated with stakeholders, and collaborated with cross-functional teams, earning commendations for promptly delivering high-quality software solutions.

China Telecom Corporation Limited | *Leading global telecommunications company*   China
Software Engineer Intern   Jun 2023 - Aug 2023

- Built a unified login platform and employee attendance system serving **800+** users with **TypeScript, React.js**, and **Webpack**, addressing the need for a streamlined and efficient login and attendance process, significantly improving user experience and overall company work efficiency by about 13%.
- Optimized API management by encapsulating back-end communications using **Axios** and **AWS API** Gateway, reducing API response time by 15%, and implemented internationalization using **i18next**, ensuring the platform could support multiple languages and improve accessibility for a diverse user base.
- Implemented DevOps practices using **Jenkins**, containerized the front-end environment with **Docker**, and integrated **New Relic** for real-time performance monitoring, improving development consistency and deployment efficiency.

PROJECT EXPERIENCE

Open-Source Contributor - Serverless Devs | GitHub Repo   Remote

- Contributed to the development of a redesigned web interface for Serverless Devs, an open-source platform that provides a robust toolchain for developers to deploy and manage serverless applications across multiple cloud providers.
- Implemented GitHub login using **NextAuth.js**, integrated Alibaba Cloud's **AI chatbot** for user interactions, and utilized Alibaba Cloud **ARMS** to analyze user behavior, addressing authentication and user support, and improving performance and user experience by 13%.
- Transitioned the web interface from simple HTML and CSS to a **Next.js** and **React**-based architecture, improving maintainability and scalability for future development by 24% and enhancing the overall user experience.

Skyline Sneakers Digital Storefront | GitHub Repo   Tempe, AZ

- Developed an e-commerce platform with separate functionalities for users and administrators using **Next.js**, **React**, and **Tailwind CSS**. Enhanced user interaction through server-side rendering, providing a seamless experience.
- Implemented an authentication system using **NextAuth.js** for Google login to address security needs. Used **MySQL** for transactional data and **MongoDB** for non-transactional data, reducing transaction processing time by 13%.
- Optimized image storage by implementing a secure, cloud-based solution using **Amazon S3**, solving issues related to inefficient image storage and retrieval, improving image load times by 25% and reducing storage costs by 14%.

TaskFlow Microservice System | GitHub Repo   Tempe, AZ

- Led a team to implement a microservice architecture with **Spring Boot**, **Spring JPA**, and **PostgreSQL**, deploying backend services in **Docker** containers to solve monolithic application constraints and enhance scalability and efficiency.
- Directed the development of a responsive UI, utilizing **React**, **Redux Toolkit**, and **JavaScript** for dynamic content and structure, focusing on user-centered design and performance optimization to enhance user experience.
- Implemented **Spring Cloud Gateway** for API routing and load balancing, providing a single entry point for all microservices. Enhanced the system with **RBAC** and real-time task notifications using **WebSocket**, solving user management and task-tracking inefficiencies.