LI HE

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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, Spring Boot, Redux, Node, Next, 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 Development Engineer — 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 Excel integration capabilities. 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 to implement secure login authentication and 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
Front End Web Developer — Jun 2023 - Aug 2023

- Built a unified login platform and employee attendance system serving over **800** users with **TypeScript, Vue.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 by setting up CI/CD pipelines with **Jenkins** and containerizing the front-end environment using **Docker**, enhancing development consistency and deployment efficiency.
- Collaborated closely with backend team members and was recognized as the top performer by the team lead. Integrated **New Relic** for real-time performance monitoring, ensuring a seamless user experience and high application reliability.

PROJECT 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 for a seamless experience.
- Implemented a robust authentication system with multi-factor authentication (**MFA**) using **NextAuth.js** to address security and user management needs, providing secure login features including Google and email-based verification. 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%.

ASU Capstone Portal Revamp | ⌘ GitHub Repo — Tempe, AZ

- Led the front-end team to revamp the system with a modern web interface using **Vue.js**, **JavaScript**, and **HTML/CSS**, enhancing aesthetics and usability, and addressing the need for a more user-friendly and visually appealing interface.
- Implemented advanced reporting and analytics with **ECharts**, displaying project types and student application statuses, enabling administrators to gain insights into project distribution and student engagement.
- Automated manual operations that were time-consuming and prone to errors, reducing faculty workload by 17%, and earning high praise during the capstone project exhibition for its practical impact.

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 role-based access control (**RBAC**) and real-time task notifications using **WebSocket**, solving user management and task-tracking inefficiencies.