

Hongrui Liu

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SUMMARY OF QUALIFICATIONS

- Proven expertise in full-stack development, demonstrated through the design and deployment of web and mobile applications using **Java**, **Golang**, **Spring Boot**, **Docker**, **Nginx**, **React.js**, **Vue.js**, **CSS**, **HTML**, **Android Development**, **IOS Development**, and the **Flutter** framework.
- Demonstrated skills in enhancing user interfaces and user experience, utilizing technologies such as **React.js** and **Vue.js**, and collaboration with UI/UX designers.
- Experienced in application optimization and scalability, utilizing techniques such as load balancing with **Nginx** and efficient state management with the **GetX** library.
- Well-versed in agile development processes and principles of effective team collaboration, contributing to successful project execution and continuous learning within the team.

PROFESSIONAL EXPERIENCE

Mobile Software Engineer Intern, PadMatch, Boston, Massachusetts

July 2023 - Present

- Spearheaded the entire cycle of the design and development of a tenant-centric mobile application, applying **full-stack** development skills using the **Flutter framework**.
- Orchestrated the creation of the user interface, working closely with a dedicated UI/UX designer. Our collaboration led to a marked improvement in the user experience, contributing to a more user-friendly, visually appealing, and intuitive application.
- Leveraged **Firebase Cloud Storage** for back-end data management, providing secure and efficient storage for tenant information. This Google-powered solution was integral in ensuring data integrity and accessibility.
- Utilized the **GetX** library to enhance application performance, resulting in improved routing and state management within the Flutter environment. This measure significantly simplified the process of state management and the implementation of MVC (Model View Controller) design pattern, offering a more stable and responsive application for end users.
- Participated in team meetings and agile development processes, regularly reviewing code and providing constructive feedback to other team members.

Software Engineering Intern, Chongqing Kungang Technology Co., Ltd., China

Aug 2021 - Nov 2021

- Engineered and deployed an employee information database on **AWS RDS**, demonstrating proficiency in database design and cloud-based deployment, crucial for full-stack development roles.
- Developed the backend of a chemical industry safety management system, utilizing the **Spring Boot** framework, signifying a strong grasp of Java and enterprise application development.
- Engaged in team-based software testing methodologies, using **JUnit** for thorough unit testing and contributing to the overall software quality and stability.
- Applied **RESTful** API design principles to facilitate efficient client-server communication, ensuring data consistency and system scalability, highlighting skills in both back-end and front-end programming.
- Participated in all stages of the software development lifecycle, from requirement analysis, design, and development, to testing, deployment, and maintenance, showcasing comprehensive full-stack development capabilities.

Software Engineering Intern, Beijing Qianfeng Internet Technology Co., Ltd, China

May 2020 - July 2020

- Conceptualized and designed **MYSQL** databases for a Trip Advisor web project, demonstrating competence in relational database management, a key component of full-stack development.
- Utilized the **Spring Boot** framework to design and implement the project's back-end, furthering my expertise in Java and back-end development.
- Took the lead in implementing **React.js** for the project's front-end, resulting in a more responsive and user-friendly interface, showcasing my full-stack capabilities.
- Leverage **Docker** for application containerization, streamlining the deployment process and ensuring a consistent environment across development, testing, and production stages.
- Deployed **Nginx** for **load balancing**, optimizing the web page's performance during high-concurrency traffic, showcasing both back-end optimization and system scalability skills.

EDUCATION

Northeastern University, Portland, ME

Sep 2022 - Dec 2024

- Master of Science, Computer Science
- Relevant Coursework: Algorithm, Programming Design Paradigm, Mobile Application Development

Chongqing University of Technology, Chongqing, China

Sep 2018 - Jun 2022

- Bachelor of Engineering, Computer Science
- Relevant Coursework: Data Structures, Database design, Computer Network, Operating systems, Computer Organization