

# Hongrui Liu

Portland, ME | Phone: (+1)207-800-7797 | Email: wooshadyyy@gmail.com  
LinkedIn: <https://www.linkedin.com/in/hongrui-ray-liu/> | GitHub: <https://github.com/RayL01>

## SKILLS

**Java, Spring Boot, JPA, Hibernate, MySQL, MongoDB, PostgreSQL, Redis, React.js, Angular, Docker, Nginx, AWS, RESTful API, JUnit, Flutter, React Native, Kotlin, Swift, Firebase, JIRA, Confluence**

## 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.
- Developed a set of backend APIs using **Spring Boot**, covering functionalities such as tenant login, maintenance request submission, and more. Leveraged **PostgreSQL** as the core database and used **Spring Data JPA** for streamlined data management, guaranteeing consistent and integral data throughout the backend. These APIs were fluently connected with the Flutter frontend, culminating in a holistic full-stack architecture.
- Utilized **Firebase Authentication** in the Flutter environment, streamlining the user login process and ensuring secure and rapid user access.
- Participated in team meetings and agile development processes, regularly reviewing code, and providing constructive feedback to other team members. Utilized **Jira** for task tracking and **Confluence** for documentation, facilitating effective team collaboration and project management.
- Successfully **launched the application** on **Google Store**, showcasing its effectiveness and usability to a wider audience.

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

**May 2021 - July 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 **medical appointment** web project, demonstrating competence in relational database management, a key component of full-stack development.
- Utilized the **Spring Boot** framework coupled with **JPA** for robust data persistence, enhancing database operations and solidifying my expertise in Java and back-end development.
- Integrated **Redis** as an in-memory data structure store, accelerating data access times and ensuring high-speed data retrieval, further optimizing the application's performance.
- Implemented **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