

# MENGYUAN LIU

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## EDUCATION

**Master of Science in Computer Science, Northeastern University, San Francisco, CA** **Expected: 05/2025**

- GPA: 4.0/4.0 Award: Graduate Dean's Scholarship
- **Relevant courses:** Data Structure and Algorithm (C), Object-Oriented Programming (Java), Discrete Mathematic

**Bachelor of Law in Sociology, Nankai University, Tianjin, China** **09/2015 - 06/2019**

- GPA: TOP 5% Award: 2019 Excellent Graduation Dissertation

## SKILLS

**Programming Languages:** R, Python, C++, C, Ruby, Java, JavaScript, HTML, CSS, Swift, TypeScript, Matlab, SQL

**Frameworks/Technologies:** Git, Flask, Django, Ruby on Rails, Spring Boot, React.js, React Native, Express.js,

Vue.js, Angular, Object-Oriented Programming, PostgreSQL, MongoDB, Docker, AWS, Google Cloud Platform

**Soft Skills:** Participant of Graduate Leadership Institute (GLI), Effective Communication, Fast Learning Ability

## EXPERIENCE

**Head Teaching Assistant, Northeastern University, Oakland, CA** **08/2023 - present**

- Develop a **Python** program to streamline the grading process by automating the updating of scores from an external system to our educational platform.
- Coordinate three lab sections with 40 students each and teach **object-oriented design** principles in Java.
- Design lab lectures and activities weekly to aid course faculty and other TAs.

**Software Engineer (full - stack), Boying Technology Inc, Tianjin, China** **04/2022 - 11/2022**

- Developed a **full-stack web application** with a user base exceeding **100,000 users**, optimizing development speed by **25%** through proactive problem-solving techniques.
- Implemented backend services by using **Spring, Spring Boot, MyBatis**, replacing an existing .NET system.
- Built static front-end applications with **Vue.js2**, enhancing the overall customer-facing experience.
- Coordinated closely with a small team of engineers to prioritize and address product feature development, infrastructure enhancements, and bug/issue management.

## TECHNICAL EXPERIENCE

**Government Housing Assistance Eligibility Service (Software Engineering)** **05/2022 - 07/2022**

*Developed a government website feature to review applicants' eligibility for public housing*

- Designed an **API interface** that integrates data from the National Bureau of Civil Affairs API, enabling CRUD operations on applicant data.
- Improved page response time by 15% through the addition of proper indexes to the database tables.
- Reduced tasks processing time by 20% through implementing **user-friendly interfaces** for efficient querying and status modification, facilitating streamlined handling of exceptions and anomalies.
- Collaborated with cross-functional teams to streamline the annual review process, achieving a 15% improvement in accuracy and efficiency for determining applicant eligibility.

**IOS COVID-19 Real-time Monitoring App (Mobile Development)** **09/2021 - 12/2021**

*COVID-19 cases mobile app tracker*

- Integrated Google Map API and Apple Map with **React Native** framework, achieving cross-platform compatibility for map functionalities.
- Gathered the real-time confirmed case information using Daemon COVID-19 API.
- Generated daily diagnosis reports based on COVID-19 confirmed cases when selecting a region on the phone.
- Deployed the application on both **Android** and **IOS systems**, ensuring broad user coverage.