

# MENGYUAN LIU

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## EDUCATION

**Northeastern University** **San Francisco, CA**  
*MS in Computer Science* *Jan. 2023 – May 2025 (expected graduate)*

**GPA:** 4.0/4.0

**Award:** Graduate Dean's Scholarship (Top 10%)

**Relevant courses:** Data Structure and Algorithm (C), Object-Oriented Programming (Java), Discrete Mathematic

*Master of Public Administration*

*Sep. 2019 – May 2021*

**GPA:** 3.9/4.0

**Award:** Public Service Scholarship (Top 20%)

**Relevant courses:** Machine Learning, Statistical Analysis

**Nankai University**

**Tianjin, China**

*Bachelor of Law in Sociology*

*Sep. 2015 – Jun. 2019*

**GPA:** TOP 5%

**Award:** 2019 Excellent Graduation Dissertation (Top 1)

**Relevant courses:** Intermediate Software Design in C++, Linear Algebra, Mathematics, Probability and Statistics

## EXPERIENCE

**Head Teaching Assistant** **Oakland, CA**  
*Fundamentals of Computer Science II, Objected-Oriented Design* *Dec. 2023 – Present*

- Coordinating three lab sections with 40 students each and teach object-oriented design principles in Java.
- Designing lab lectures and activities weekly to aid course faculty and other TAs.
- Meta-grading 40 assignments weekly, ensuring fairness by checking graders' consistency in grading.

**Boying Technology Development Company** **Tianjin, China**  
*Software Engineering Intern - Full-stack* *Apr. 2022 – Nov. 2022*

- Contributed to the full stack development of government affairs service system with Java for improved service.
- Implemented backend services by using **Spring**, **Spring Boot**, **MyBatis**, replacing an existing ASP.NET system.
- Built static front-end applications with **Vue.js3**, 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

**MovieGenius: Movie Discovery, Rating, and Recommendation (Web Development)** **Jan. 2023 – Apr. 2023**  
*Built a movie recommender featuring search functionality, details display, and personalized recommendations.*

- Held the recommender as a **RESTful** API using **Flask** in **Python**.
- Designed and implemented 5 user-friendly webpages using **HTML** for seamless navigation.
- Enhanced the visual appeal of the website and its contents using **CSS**.
- Implemented **JavaScript** to improve webpage interactivity and enhance user engagement.
- Integrated external APIs (IMDB, OTT, **ChatGPT 3.5**, and UMDB) as backend, enabling various web functions and providing a comprehensive movie-related experience.

**IOS COVID-19 Real-time Monitoring App (Mobile Development)** **Sep. 2021 – Dec. 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.

## SKILLS

**Languages:** R, Python, C++, C, C#, Ruby, Java, JavaScript, Apex, HTML, CSS, Swift, TypeScript, Go, Matlab, SQL  
**Frameworks/Technologies:** Git, Flask, Django, Ruby on Rails, Spring Boot, React.js, React Native, Express.js, Vue.js, AngularJS, Object-Oriented Programming, PostgreSQL, MongoDB, Docker, AWS, Google Cloud Platform  
**Soft Skills:** Participant of Graduate Leadership Institute (GLI), Effective Communication, Fast Learning Ability