

MENGYUAN LIU

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SKILLS

Languages: R, Python, C++, C, Ruby, Java, JavaScript, Apex, HTML, CSS, Vue, Swift, Matlab, SQL

Frameworks/Technologies: Git, Flask, Ruby on Rails, React.js, React Native, Object-Oriented Programming, AWS

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

EXPERIENCE

Head Teaching Assistant

Oakland, CA

Fundamentals of Computer Science II, Objected-Oriented Design

Dec. 2023 – Present

- 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.
- Grade 10 assignments weekly and check graders' grading consistency.

Teaching Assistant

San Francisco, CA

Intro to Machine Learning and Data Mining

Sep. 2023 – Dec. 2023

- Hosted five 90-minute office hours weekly, providing guidance and clarifications to students on course materials, resulting in improved understanding and performance.
- Conducted monthly coding walkthrough sessions to assess the quality of students' learning, providing tailored learning suggestions for their next phase of study, leading to increased participation and a deeper understanding of the learning materials.

TECHNICAL EXPERIENCE

MovieGenius: Movie Discovery, Rating, and Recommendation (Web Application)

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

Sep. 2021 – Dec. 2021

- 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.

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