

Yuming Huang

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EDUCATION

University of Wisconsin - Madison

Bachelor of Science in Computer Science

2021 - 2024.5

University of California, Los Angeles

Master of Engineering in Artificial Intelligence

GPA:3.9/4

2024 - 2026(expected)

SKILLS

- **Programming:** Proficient in Java. Fluent in Javascript/HTML5/CSS, C/C++. Familiar with Python, R.
- **Tools/Framework:** React, React Native, Spring Boot, ExpressJS, Nextjs, Tailwind CSS, Three JS, Blender, MySQL, Redis, Makefile, Git, Docker, Hadoop, Spark, Kafka.
- **AI:** Good Understanding of ML especially in CNN. Have experience of using Pytorch/Tensorflow.

EXPERIENCE

Peer Mentor, Intro to Computer Science CS111, Boston University

Jan 2021

- Helping students answer homework and project questions on the forum, assisting teaching assistants in grading students' project assignments.

Platform Support Intern, China Unicom, Chongqing Branch

July 2023

- Assisting mentors in completing assigned tasks, categorizing and filtering the Chongqing China Unicom phone number database. Using regular expressions to write filtering functions to select vanity phone numbers. Help to develop

PROJECTS

Campus News App (Frontend)

- This is a mobile App of school news. My main responsibility involves building the user interface of the app. I used **Figma** to prototype major pages of the app and **React Native** to implement prototype such as user login and registration forms, homepage navigation logic, animated rendering for news pages, and conditional filtering based on news topics.

Alumni Connect (Full Stack)

- Back end: **SpringBoot+MyBatis**. Front End: **React+Bootstrap**. Database: **MySQL**. Implemented **JWT** for user authentication and **reCAPTCHA** for preventing malicious attack.
- Implemented login and registration, as well as functionalities for adding, deleting, querying, and modifying user information. Display past alumni's graduation schools, majors, work fields, and contact information. Also, provide a chat forum for communication.

Self-Service Motel Booking System

- Developed Airbnb-like hotel booking system for self-service intelligent container house. Using WeChat mini program as user interface,

PUBLICATION

Multiple SOTA Convolutional Neural Networks for Facial Expression Recognition

Yuming Huang

- Investigate whether SOTA models trained on ImageNet can perform exceptionally well in FER tasks. The models are categorized into three groups based on different weight initialization strategies and then trained and evaluated on the FER-2013 dataset.
- The results indicate that models with weights trained on ImageNet can be fine-tuned and perform well in FER-2013, particularly when compared to other groups. Finally, simpler models with less computational costs are promoted considering the need for real-time application of facial expression recognition.