# LUYAO MA

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## 🎓 EDUCATION

**University of California, San Diego (UCSD)**　　　　　　　　　Sep. 2023 - Jun. 2025
*M.S. student in Computer Science*

**Zhejiang University (ZJU)**　　　　　　　　　　　　　　　　　Sep. 2019 – Jun. 2023
*B.Eng. in Computer Science and Technology at College of Computer Science and Technology*

- **Performance**: Overall: **3.91/4.0 (89.19/100)**　Major: **3.94/4.0 (89.38/100)**
  Rank: **Top 5%** among the 248 students with the speciality of Computer Science and Technology
- **Honors Program**: Mixed Class in Chu Kochen Honors College (Top 5% students in Zhejiang University)

## ⚙ SKILLS

- Programming Languages: Java, C++, C, Python, SQL, MATLAB, Verilog HDL
- Framework: PyTorch, Qt, OpenGL, OpenCV, LaTeX

## 🔖 COURSE PROJECT

**Hospital Online Appointment System** | Technical Skills: **JavaScript**　　　Jun. 2022
- Worked as a team to implement a hospital online appointment system, with both Doctor-side and Patient-side interactive interfaces and a database that stores relevant information. *Click here* to view project repository.
- Developed the doctor-side backend to manage the database and respond to API requests from the frontend.

**Video Filter** | Technical Skills: **Python**　　　　　　　　　　　　　　　Apr. 2022
- Developed a video displayer that can apply 12 different filters to the original video.
- Implemented functions of loading video, choosing and applying a filter, and displaying the filtered video.

**Spreadsheet implemented in C++** | Technical Skills: **C++**　　　　　　　　Jun. 2021
- Developed a spreadsheet using **Qt** which supports:
  - Basic editing of cells, including data input and representation of various data formats.
  - The saving and opening of the spreadsheet document.
  - Cell layout, including alignment, cell merging and splitting, cell size settings, and row hiding.
  - Basic data processing functions, including find and replace, filtering, sorting, and formula calculation.

## 📑 RESEARCH EXPERIENCE

**Undergraduate Thesis**　　　　　　　　　　　Zhejiang University, Jun. 2022 - May 2023
*Out-of-distribution(OOD) Sample Detection Model for Molecular Property Prediction Tasks*
Technical Skills: Python | **Machine Learning** in Drug Discovery
. Designed the ODIN4MG method, resulting in enhanced detection of OOD samples in molecular property prediction, leading to more accurate predictions.
· Evaluated the performance of three existing OOD detection methods in molecular property prediction tasks.

## 🏳 HONORS AND AWARDS

*1ˢᵗ Prize* of Zhejiang University Scholarship (for academic excellence and all-rounded development)　2020
*2ⁿᵈ Prize* of Zhejiang University Scholarship　　　　　　　　　　　　　　　　　　　　　2022
**Yongping Scholarship** in Chu Kochen Honors College (**Top 10% in 600+ students**)　　　　2022

## 👥 SOCIAL PRACTICE & OTHERS

**Volunteer Teaching**: Online teaching for students in Honghe Middle School, Yunnan Province　Aug. 2020
**Other Voluntary Activity**: Volunteer of Smile Pavilion of West Lake; Elderly Home Volunteer Service; Volunteer of Zhejiang University Student Festival; Total volunteer hours over 130h　　　　　　2019-2021