

# Jennifer (Yu-Hsuan) Chen

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## Education

University of California, Los Angeles

September 2021 - June 2025

B. S. Computer Science and Engineering

GPA: 4.0/4.0

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Computer Organization, Systems and Signals, Discrete Math, Linear Algebra, Probability and Statistics

## Experience

Raydium Semiconductor Corp - Software Intern | C, Octave, Python

June 2022 - August 2022

- Improved IC simulation workflow by integrating self-written c code with company code to transition simulation process from a windows environment to a linux environment
- Wrote shell scripts to test self-written c code
- Incorporated octave scripts visualizing data in 2D and 3D into simulation software
- Reduced data analysis time 80% by converting company octave code to python
- Read and summarized papers on topics such as anomaly detection using machine learning models

## Projects and Extracurricular Activities

UCLA IEEE Pocket Racers | Python, OpenCV, Numpy

- Used OpenCV image processing techniques to count dots on colored and grayscale dice
- Utilized blob and contour detection to control a self-driving car to react to road signs
- Predicted occurrence of heart attacks using logistic regression with 79% accuracy

C++ Software Development | C++, Arduino

- Implemented a SuperMarioBrothers-like game using object-oriented programming concepts
- Implemented a text-based, terminal-based dating app using a self-written radix tree and other C++ STL data structures. The resulting app can find and print out suitable matches in less than two seconds
- Programmed PID control in a team to make an IR-sensing car complete a non-linear track

Web Development | HTML, CSS, JavaScript, React, Firebase

- Designed and tested dynamic React components for UCLA TeachLA webpages to teach children python
- Implemented backend framework of grocery list web application using Firebase
- Built a personal writing portfolio using the gatsby js framework

## Technical Skills

- **Programming/Software:** C/C++ (Advanced), Git (Intermediate), Shell Scripting (Intermediate)
- **Data Analysis:** Python (Intermediate), Octave (Intermediate)
- **Web Development:** HTML, CSS, JavaScript, React, Express, MongoDB, Firebase (Novice/Intermediate)