

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, Software Construction, Computer Organization, Signals Processing, Linear Algebra, Probability and Statistics, Operating Systems

Experience

UCLA VAST Lab - Undergraduate Researcher | Python

April 2023 - June 2023

- Revised SMT solver constraints to standardize optimal and greedy quantum compiling output
- Processed unstandardized old compiler output data to conform to new output standards
- Streamlined quantum compiling workflow by integrating optimal and greedy compiler code
- Animated optimal quantum compiling process based on greedy compiling animation

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 automate testing of 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

- Predicted occurrence of heart attacks using logistic regression with 79% accuracy
- Utilized blob and contour detection to control a self-driving car to react to road signs

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

- Designed and tested dynamic React components for UCLA TeachLA webpages to teach python
- Provided custom APIs to access Firebase database for grocery app project Corkboard's frontend team
- Used Axios to query grocery price data from an online database and devised data-cleaning techniques

Technical Skills

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- **Programming Languages:** C/C++, Python (Advanced), Octave, Shell Scripting (Intermediate)
 - **Web Development:** HTML, CSS, JavaScript, React, Firebase (Intermediate)
 - **Tools/Frameworks:** Git, Linux, LaTeX