

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

Amazon Web Services - SDE Intern | Python

June 2023 - September 2023

- Automated security-patching process of Deep Learning Amazon Machine Images (DLAMIs)
- Automated dependency conflict resolution in environments with 200+ python packages
- Updated integration tests to test automated security-patching process
- Estimated to reduce DL infrastructure team's release pipeline failures and save developer time by 80%

UCLA VAST Lab - Undergraduate Researcher | Python

April 2023 - June 2023

- Revised SMT solver constraints to standardize optimal and greedy quantum compiling output
- Processed 100+ unstandardized compiler output data files to conform to new output standards
- Streamlined quantum compiling workflow by integrating optimal and greedy compiler

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

June 2022 - August 2022

- Improved IC simulation workflow by integrating self-written command-line tool with company codebase
- Integrated bash scripts for integration testing and octave data visualization scripts into simulation software
- Reduced data analysis time by 80% by converting octave codebase to python
- Read and summarized papers on topics such as real-time curve-smoothing using Kalman filters

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 with 81% accuracy

Corkboard | HTML, CSS, JavaScript, React, Firebase, Axios

- Provided 12 custom APIs to access Firebase database for grocery app 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, Octave, Bash, HTML, CSS, JavaScript
 - **Tools/Frameworks:** React, Firebase, Git, Linux, LaTeX, AWS