

# Jennifer (Yu-Hsuan) Chen

Los Angeles, CA • (201) 953-0107

[jchen2430@g.ucla.edu](mailto:jchen2430@g.ucla.edu) • [Github](#) • [LinkedIn](#)

## Education

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University of California, Los Angeles

September 2021 - June 2025

B. S. Computer Science

GPA: 4.0/4.0

**Relevant Coursework:** Data Structures and Algorithms, Software Construction, Signals Processing, Linear Algebra, Probability and Statistics, Operating Systems, Data Management Systems, Web Applications

## Experience

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Amazon Web Services (AWS) - SDE Intern | Python

June 2024 - September 2024

- Automated generation of diffs of package versions installed in Deep Learning Amazon Machine Images

Amazon Web Services (AWS) - 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
- 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

- Created command-line tool to integrate data visualization features into IC simulation workflow
- Summarized papers on topics such as curve-smoothing using Kalman filters

## Projects and Extracurricular Activities

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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 80% 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, SQL
  - Tools/Frameworks:** React, Firebase, Git, Linux, LaTeX, AWS