Chih-Lin Wang

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Education

- **University of California, San Diego** — La Jolla, CA
  Bachelor in Computer Science; GPA: 3.827 (Dean's List) — *Sep 2021 - Current*
  Relevant Coursework: Linux Operating System, Probability and Statistics, Data Structures, Theory of Computation, Components and Design Techniques for Digital Systems, Design & Analysis of Algorithm, Software Engineering, Computer Graphics.

- **De Anza College** — Cupertino, CA
  Computer Science; GPA: 3.93 (Dean's List) — *Sep 2018 - Jun 2021*
  Relevant Coursework: Object-Oriented Programming, Linear Algebra, Advanced Python, Discrete Mathematics.

Professional Experience

- **Strategic Building Innovation** — Remote
  Software Development Engineer Intern — *Mar 2022 - Aug 2022*
  - Developed a 360-degree panorama project to visualize the real-time data (temperature/humidity) of the device at each building in value and chart style.
  - Designed a website to display and visualize the 360-degree panorama with the device's data which is retrieved from the Smartthings API and AWS API endpoints.
  - Customized Smartthings API endpoints to send each device data into MySQL database on AWS EC2, which accumulates data every 5 minutes and displays past 24 hours data on AWS API.
  - Languages used: Javascript, CSS, Html, Groovy

- **De Anza College** — Cupertino, CA
  Teaching Assistant - Prof. Delia Garbacea — *Jan 2020 - Mar 2020*
  - Explained data structure concepts and clarified students' doubts.
  - Improved communication between students and the professor.

Academic Projects

- **Ray Tracer**: Built 3D scenes in the virtual world with impressive renderings with high-quality shadows and reflections. Implemented Rodrigue's rotation, Blinn-Phong model, and Raytracer to support the rotation and lightning of objects. (Dec '22)
- **Stonk Chore Tracker**: Designed a chore application to display organized to-do lists in an orderly manner to help customers organize their daily chores. Implemented add, sort, and present chores on the website based on the user's desired order (by due date/by assignee/by section). (Dec '22)
- **Davis time**: Designed a class evaluation searching program to help students at UC Davis to search for historic grade distributions for classes by class title or professor's name. Displayed analyzed data in bar charts using Python. (Jan '22)
- **College Rank Searching System**: Designed a college rank searching system to allow incoming college students to visualize their desired college ranking. Scraped data from an Internet source and stored in JSON and created an interface for users to view data with filters and linked filtered results to external sources for additional information. (Mar '21)

Skills

- **Languages**: Python, C++, JAVA, Bash, SQL, C, Javascript, HTML, CSS
- **Tools**: Git, Mac OS, Windows, GitHub, Visual Studio Code, Visual Studio, IntelliJ IDEA, AWS