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## EDUCATION

### University of California, Los Angeles

B.S. in Mechanical Engineering

September 2019 - June 2023

- GPA: 4.00, Summa Cum Laude
- Technical Breadth in Computer Science

## EMPLOYMENT

### The Aerospace Corporation

Technical Intern (Software)

June 2022 - September 2022

- Developed scripts in Python to automate the post-flight workflow
- Enhanced Python script performance by 57% using multiprocessing
- Debugged old scripts to generate an updated post-flight report for an important mission
- Plotted response spectra to exhibit key differences between post-flight reports and models

### Serve Robotics

Mechanical Engineering Intern

June 2021 - September 2021

- Designed and prototyped parts to go on a food delivery robot

## PROJECTS

*View the source code and READMEs on my github.*

### carl-shop

#### Ecommerce website

- Built from scratch using a React front-end on the Next.js framework
- Utilized TailwindCSS for styling with a mobile-friendly approach
- Currently working to add back-end functionality

### corychilton.github.io

#### Personal website

- Built from scratch using vanilla HTML, CSS, and Javascript

### Connect-N

#### Computer Game

- Coded in C++ using objected-oriented programming
- Play against a friend or against a bot that always plays perfectly

### Sorting-Visualize

#### Interactive Module

- Developed using the Pygame module in Python
- Shows how commonly used sorting algorithms sort data

### juice-box-robot

#### Autonomous Robot

- Programmed in Arduino (based in C++)
- Autonomously transports a juice box through an obstacle course

### COVID-Modeling

#### Graphical Model

- Coded using MATLAB
- Simulates the spread of COVID using a susceptible, infected, recovered model

## COURSEWORK

- Object-Oriented Programming and Data Structures (C++)
- Algorithms
- Discrete Structures
- Introduction to Computer Science (C++)

## SKILLS

- Python ●●●●●○
- HTML ●●●●●○
- TailwindCSS ●●●●●○
- JavaScript ●●●●○
- React ●●●●○
- CSS ●●●●○
- MATLAB ●●●●○
- C++ ●●●○○
- TypeScript ●●●○○
- Next.js ●●●○○
- Arduino ●●●○○
- Git ●●●○○
- Node.js ●●○○○
- Java ●○○○○
- LaTeX ●○○○○

## ENGINEERING

### Bruin Racing Formula SAE

- Chassis Design & Manufacturing Lead
- Designed and performed FEA analysis on a completely new chassis using SolidWorks and NX
- Integrated the chassis with adjacent subsystems

## VOLUNTEERING

- AYSO: Soccer Referee (2013-2017)

## ACTIVITIES

- UCLA club spikeball president and ski team member
- Intramural soccer, volleyball, and tennis