

Cory Chilton

(650) 339-5381
Foster City, CA 94404

corychilton@g.ucla.edu Email
corychilton.github.io Website
github.com/corychilton GitHub
linkedin.com/in/corychilton LinkedIn

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
- Tracked issues using Jira

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
- Linear Algebra
- Discrete Structures
- Electrical and Electronic Circuits

SKILLS

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

ACTIVITIES

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