

Cory Chilton

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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
- 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.

roundnet-player-web-app

Informative Website

- Built frontend using Typescript within React on the Next.js framework
- Fetched data to display from a backend API

carl-shop

Ecommerce Website

- Built 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 object-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 COVID spread using a susceptible, infected, recovered model

COURSEWORK

- Object-Oriented Programming (C++)
- 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