

Jonathan Carlson

(+1) 707-782-2226 | jonathanbcarlson@gmail.com | <http://jonathanbcarlson.com> | [linkedin.com/in/jonathanbcarlson](https://www.linkedin.com/in/jonathanbcarlson)

Education

University of California, Los Angeles (UCLA)

Los Angeles, CA

B.S. in Computer Science, GPA: 3.7

Sep. 2019 – Jun. 2023

- Relevant UCLA Coursework: Operating Systems, Data Structures and Algorithms, Intro to Computer Organization, Software Construction Projects, Multivariable Calculus, Linear Algebra, Discrete Structures
- Independent Coursework: Stanford Machine Learning (Coursera), Deep Learning (deeplearning.ai)

Experience

HydroPoint Data Systems

Petaluma, CA

Engineering Intern

Jan. 2021 – Sep. 2021

- Using machine learning to help them optimize their water leak detection capabilities.

Insta-Chef (CS97 Project)

Los Angeles, CA

Full Stack Developer

Feb. 2021 – Mar. 2021

- Used React and Firebase Realtime Database to create a recipe-finding website that leverages ingredients you have in your kitchen.
- I created a user-specific Pantry where the user can search for recipes based on a selected ingredient.
- I also worked on styling the Login and Pantry pages so they're accessible for mobile users.

IDEA Hacks

Los Angeles, CA

Corporate Committee Member

Jun. 2020 – Jan. 2021

- Connecting and securing sponsorships with tech companies such as Qualcomm, to fundraise for the largest hardware hackathon on the west coast, IDEA Hacks.

WakeU

Los Angeles, CA

Team Member of WakeU at IDEA Hacks

Jan. 2020

- Created a smart sleep tracker that woke the wearer during their lightest sleep cycle.
- Wirelessly communicated acceleration data from an IMU on Arduino to Raspberry Pi using Bluetooth.
- If the wearer moved past a pre-defined acceleration threshold, a speaker attached to their ear would wake them.

IEEE Student Branch at UCLA

Los Angeles, CA

Open Project Space (OPS) Member

Oct. 2019 – Mar. 2020

- Implemented serial communications such as SPI using Arduino, designed a PCB using EAGLE.
- Used an Arduino, IMU, and I2C to change the brightness of LEDs based on IMU orientation.

Skills

Programming Languages

Python, JavaScript, C++, C, Arduino, R, Bash

Frameworks & Misc

React, Firebase, TensorFlow, Git