

Jonathan Carlson

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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, Algorithms, Machine Learning, Computer Vision, 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

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

Projects

Insta-Chef (CS35L Project)

Los Angeles, CA

Full Stack Developer

Feb. 2021 – Mar. 2021

- Created a recipe-finding website that leverages ingredients you have in your kitchen using React and Firebase Realtime Database.
- Led the design of a user-specific Pantry where the user can search for recipes based on a selected ingredient.
- Styled the Login and Pantry pages to make them accessible for mobile users.

IEEE Student Branch at UCLA

Los Angeles, CA

Micromouse

Oct. 2020 – Mar. 2021

- Designed a PCB which detects walls using IR sensors and receivers and sends that data to an STM32 microcontroller.
- Designed a maze-solving algorithm that used flood fill to navigate any unknown maze.

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.

Skills

Programming Languages

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

Frameworks & Misc

Pytorch, Git, React, Firebase, TensorFlow, LaTeX