Jonathan Carlson

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Education

University of California, Los Angeles (UCLA)   Los Angeles, CA
B.S. in Cognitive Science, GPA: 3.6   *Sep. 2019 – Jun. 2023*
- Relevant UCLA Coursework: Data Structures and Algorithms (CS32), Introduction to Computer Science(CS31), Multivariable Calculus (Math32A), Psychological Statistics (Psych100A)
- Independent Coursework: Stanford Machine Learning (Coursera), Deep Learning (deeplearning.ai)

Experience

IDEA Hacks   Los Angeles, CA
Corporate Committee Member   Jun. 2020 – Present

- 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 LED's based on IMU orientation.

UCLA   Los Angeles, CA
Rogue-like video game   Mar. 2020

- Implemented random level creation, created different monsters that use recursion to follow the player.

Boy Scouts of America (BSA)   Petaluma, CA
Eagle Scout Project   Jun. 2015 – Jul. 2015

- Oversaw over 50 people creating a memorial garden at my elementary school for a friend who passed away from cancer in my 8th grade.
- Facilitated relationships and donations with local companies and community members.
- 300 hours later, created Buddy Benches (if a student sat here, they wanted a friend), and play areas.

Skills

Programming   C++, Python, Arduino, R, Bash
Technologies   TensorFlow, Git, Github