Justin Chang

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Education:
University of California, Los Angeles: Bachelors Electrical Engineering June 2020
College GPA: 3.85

Experience:
High School Math and Physics **Tutor**: helped 100+ students October 2015-June 2016
Car Insurance Ads **Research Assistant**: January 2017-April 2017
-tracked consumer behavior over years and company behavior. (paid job)
Spinal Cord Injury **Research:** **April 2017-Present**
-Raspberry Pi 3, Arduino gpio and small assignments in a team focusing on developing procedures for rehabilitating patients with spinal cord injury.

Other Computer Relevant Skills/Interests:
Attended **LA Hacks:** March 2017
-worked on javascript, html, and created personal website http://termular.me/
Attended **Cal Hacks:** November 2016
-learned swift programming and created a few simple iOS aps (on github)
UCLA IEE (OPS/Micromouse) **September 2016-Present**
-basics of EECS, hardware components and connection to microcontrollers, soldering, EAGLE CAD PCB design
-worked on a micromouse maze traversing robot using IR sensors, arduino (C programming), and L239D h bridge. Link to project in personal website.
CS32
- Functions, Pointers, Classes, Recursion, Data Structures (Arrays, Linked List, BST, Hash Tables, Heaps) , STLs (Queues, Stacks, Vector (dynamically reallocated array), List) Inheritance/Polymorphism, basic Algorithmic Complexity
EE96C
-Intel Edison basics, HTTP protocol, SSH, mounting on Grove Shield for GPIO, setting up basic client server interactions, etc
-Final Project focused on machine learning and using 9 DOF (Degrees of Freedom) sensor, with FANN (Fast artificial neural network) API to classify 3 types of motions. Link to project can be found in my personal website.
EE3 (project and report description on my website as well)
-Voltage Divider/Load, basic EE concepts (impedance, circuit analysis, OP AMPS)
-worked on a Final Project that used a car (Arduino controller) staying on top of a track (IR Sensors for electric tape), with halls effects sensor to detect magnets.

Leadership:
Vice President of Mu Alpha Theta Math Club June 2015-June 2016
-AMC math contest, Log competitions, and Rocket City Math League competitions

Volunteer Experience:
Circle K International UCLA **October 2016-Present**

Achievements:
Taiwanese American Scholarship Fund June 2016
McKinley Scholarship May 2016