Sophia Lau

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EDUCATION

Computer Science & Cognitive Science B.A
Class of 2021
Technical GPA: in progress

University of California, Berkeley

CS Scholars Program, Cohort 9

- 1/60 freshmen chosen on the basis of being underrepresented in computer science
  - goal to increase diversity in the major in regards to first generation, minority, and socioeconomically disadvantaged students with a passion for the field, and a determination to graduate successfully from it

Relevant Coursework:

- CS61A: Structure and Interpretation of Computer Programs
- CS61B: Data Structures & Algorithms (Sp'18)
- EE16A: Designing Information Devices and Systems I
- EE16B: Designing Information Devices and Systems II (Sp'18)

Technologies:

- Python, Numpy, SQL, Lisp, HTML/CSS

Valedictorian
2013 - 2017
Unweighted GPA: 4.0
Weighted GPA: 5.0
ACT: 34

Silver Creek High School, San Jose

- 2-time Synopsys Science Fair Champion, California State Science Fair representative
- National Honor Society (NHS) Vice President
- NMSQT Commended Scholar
- 2016 Santa Clara Valley Mathematics Association (SCVMA) Senior Math Olympiad
- Varsity Badminton Team, Rookie of the Year (only 1st year player on team)
- Student under American Ballet Theatre
- Principal roles in San Jose Dance Theater's annual *Nutcracker* in the San Jose Center for the Performing Arts

PROJECTS

Backend
Python
Fall 2017

Ants and Some Bees | CS61A

- Created a GUI based game modeled after *Plants vs. Zombies*
- Learned and implemented object oriented programming to create unique players with special restrictions and abilities.

Backend
Lisp, Python
Fall 2017

Scheme Interpreter | CS61A

- Built an interpreter of a subset of a Scheme language using Python

Backend
Python
Fall 2017

Maps | CS61A

- Created a program that takes in user input and preference history and uses it to calculate the best restaurant in the current location
- Wrote algorithm using k-means clustering combined with a regression algorithm to match user with best restaurant