

# David Paner

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## WORK/VOLUNTEER EXPERIENCE

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### Berkeley Engineers and Mentors

Sept. 2017 – Present

*Site Leader and Lesson Writer*

*Berkeley, CA*

- Mentored 20 elementary/middle school students throughout Berkeley and Oakland through engaging project based science and engineering lessons in order to stimulate their interest in pursuing careers in STEM.
- Managed my team of 4 other college students by assigning different roles and providing feedback on any issues or strengths in their performances.
- Designed lessons involving STEM topics and the engineering design process in a way for other mentors to effectively teach elementary/middle school students.

### St. Raymond Catholic Church

Oct. 2016 – Present

*Piano Accompanist*

*Dublin, CA*

- Accompanied children and adult choirs at both rehearsals and live performances.
- Interpreted and personalized performances to accentuate worship during mass.
- Worked individually with soloists in order to facilitate flawless performances of psalms.

### Biology 1B Field Research

Jan. 2018 – May 2018

*Researcher*

*Berkeley, California*

- Worked with 3 other undergraduate students to research the effect of diet changes on behavior within Argentine ant (*Linepithema humile*) colonies.
- Used R with guidance from my GSI in order to analyze the results from our data.

## SELECTED PROJECTS

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### Audioflexica

*Python*

- Utilized PYAudio, PyQtGraph, and OpenGL to create an audio-responsive mesh that used a Perlin noise algorithm to randomize and animate the mesh's terrain.

### Amazons

*Java*

- Created a program to run the Chess variant, *The Game of the Amazons*.
- Coded an AI utilizing the minimax algorithm that is capable of finding a win within 10 moves.

### Video Object Detection

*Python*

- Tensorflow based detection adapted to track custom objects through live video.

## EDUCATION

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### University of California, Berkeley

May, 2021

*B.A. Computer Science, Data Science*

*Berkeley, CA*

## SKILLS

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- Proficient in Python, Java, HTML, and CSS
- Familiar with SQL, Javascript