David Paner

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WORK/VOLUNTEER EXPERIENCE

Berkeley Engineers and Mentors   **Sept. 2017 – Present**
Site Leader and Lesson Writer   *Berkeley, CA*
- Mentored at least 40 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 colleagues 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 with Argentine ant (*Linepithema humile*) colonies.
- Used R with guidance from my GSI in order to analyze the results from our data.

PROJECTS

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

University of California, Berkeley   **May, 2021**
B.A. Computer Science   *Berkeley, CA*

SKILLS

- **Skills:** Proficient in Python, Java, Javascript, HTML, and CSS **|** Familiar with SQL, Scheme