

Andrew Oeung

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Education

University of California, Berkeley

Bachelor of Science, Electrical Engineering and Computer Sciences

Graduation: May 2019

GPA: 3.4

Coursework

- Structure and Interpretation of Computer Programs (CS61A)
- Data Structures (CS61B)
- Great Ideas in Computer Architecture (CS61C)
- Introduction to Database Systems (CS186)
- Designing Information Devices and Systems I (EE16A)
- Designing Information Devices and Systems II (EE16B)
- Discrete Math and Probability (CS70)

Leadership Experience

Key Club President

March 2014 – April 2015

- Volunteered over 200 hours for community service
- Raised over \$300 for Pediatric Trauma Program

Work Experience

Academic Intern: UC Berkeley, Data Structures

January 2017 - Present

- Supported students through office hours and lab assistance

Projects

SIXT33N

- Applied Principal Component Analysis (PCA) to extract key features from several audio samples of words in order to differentiate and classify words with Python and Energia
- Applied machine learning to generate k-means clustering models of word samples to predict the categorization of future word samples
- Designed a closed loop controls procedure that differentiates words and allows the car to go straight, turn right, or turn left depending on the stated word

Relational Database

- Implemented a relational database that takes in queries and performs query operators like grace hash join, sort merge join, and block nested loop join with iterator support for each operation
- Created a B+ tree that supports B+ tree key insertion, B+ tree iteration, and an index scan operator with iterator support

Java Text Editor

- Developed implementations for scrolling via scroll wheel, undo/redo, font resizing, and word wrapping, and tracking cursor movement
- Implemented the functionality of opening/saving text files for later use

Skills

- Proficient in Python, Java, C, UNIX Commands, Github, Word, PowerPoint, Excel
- Bilingual with Spanish