

Shayan Ghosh

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Education

University of California, Berkeley

Berkeley, CA

B.A. IN COMPUTER SCIENCE AND DATA SCIENCE, GPA: 3.7

May 2023

- **Minor in City and Regional Planning**
- **Cal Raijin Taiko**, Performer and Publicity Officer — *Fall 2019 - Present*
- **Cal Habitat for Humanity**, Volunteer — *Fall 2020 - Present*

Cosumnes Oaks High School

Elk Grove, CA

GPA: 4.7, NATIONAL HONOR SOCIETY, GOLDEN STATE SEAL MERIT DIPLOMA, CALIFORNIA SCHOLARSHIP FEDERATION

May 2019

Coursework:

CS 61B DATA STRUCTURES, **CS 61A** THE STRUCTURE AND INTERPRETATION OF COMPUTER PROGRAMS, **DATA 8** FOUNDATIONS OF DATA SCIENCE, **EECS 16A+16B** DESIGNING INFORMATION DEVICES AND SYSTEMS

Skills

Languages Python, Java, SQL, Scheme

Tools git, GitHub, HTML, CSS, JupyterLab, LaTeX

General Object-Oriented Design, Data Structures, Algorithms

Extracurricular Activities

Data Science Learning Assistant

Berkeley, CA

DATA 8

Jan. 2020 - Mar. 2020

Helped undergraduate students apply data science methodologies and python knowledge to complete data-driven lab exercises covering various topics including least squares regression and A/B testing.

Office Hours Academic Intern

Berkeley, CA

CS 61A

Jan. 2020 - Mar. 2020

Explained theory behind foundational computer science concepts to undergraduate students beginning with basic python syntax and building up to data structures such as linked lists and binary search trees to deepen their understanding of course topics.

Tutor

Elk Grove, CA

CALIFORNIA SCHOLARSHIP FEDERATION

Aug. 2016 - May 2019

Reinforced core topics in math and English for struggling students in grades 7-12 through working through practice problems and identifying and discussing gaps in understanding.

Club Founder and President

Elk Grove, CA

VEX ROBOTICS CLUB

Aug. 2017 - May. 2019

Led software and electrical teams to build semi-autonomous robots winning multiple regional tournaments over two years. Designed both software and hardware portions of the robots and managed task delegation, time management, and game strategy.

Projects

Gitlet

- A simple Java implementation of the git version control system.
- Used object-oriented design principles and a graph-structured file system, supporting git-like operations such as branch, checkout, and merge.

Movie Genre Classifier

- Used python to build a nearest neighbors classifier using a large training set to accurately predict the genre of a movie based on the frequency of selected words in the script.