SOHROB ESLAMIEH

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Education

UC Berkeley

B.A. Candidate, Computer Science, Expected May 2022

Cumulative GPA: 3.82/4.0

Relevant Coursework: Efficient Algorithms and Intractable Problems (CS 170), Optimization Models in Engineering (EECS 127), Structure and Interpretation of Computer Programs (CS 61A), Data Structures (CS 61B), Great Ideas in Computer Architecture (CS 61C), Web Design (DesInv 98), Discrete Mathematics and Probability Theory (Math 55), Linear Algebra and Differential Equations (Math 54).

Malibu High School

Cumulative GPA: 4.0/4.0; Valedictorian;

Experience

UC Berkeley Electrical Engineering & Computer Science (EECS)

Intern for Course Staff | August 2019-Present

Academic Intern for CS 61B, UC Berkeley's data structures course. Responsible for helping teach students data structures like ArrayLists, disjoint sets, BSTs, Red Black Trees, HashMaps, heaps, priority queues, Tries, KDTrees, and graphs. Also responsible for helping teach concepts such as JUnit testing, asymptotic analysis, hashing, graph traversals (A*, DFS, BFS, etc.), and list sorting algorithms.

Projects

Video Game Development

Developed a small-scale world video game similar to PAC-MAN in terms of style and objectives. Pseudo-randomly generates worlds based on user inputted seeds. Used Java libraries such as Princeton's StdDraw in order to create an interactive end user GUI. Able to share code snippets of the project privately through GitHub upon request.

Bear Maps

Developed a web based map application in Java that supports the searching of local businesses. Implemented an auto-complete feature that utilizes Trie operations in order to make the search feature more convenient. Implements A* in order to find the best directions between data points. Implements a KD Tree in order to organize data points and efficiently find the closest queried point. Able to share code snippets of the project privately through GitHub.

Skills

Proficient in **Python**, **Java**, **C**, HTML, CSS, JavaScript, **Git**, SQL, Unix, Lisp, RISC-V, LaTeX, Adobe Suite, Google Suite, Microsoft Office. Full fluency in Farsi, Spanish, and English.