Harris McCullers

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EXPERIENCE

Harvey Mudd & Pitzer College, Claremont CA —
Grutor (Grader and Tutor)

SEPTEMBER 2018 - PRESENT

- Helped Pitzer professors to form CS department at Pitzer and create student tutoring program. Also assisted in hiring of other student Grutors.
- Worked with 100 students in sessions of various sizes
- In charge of grading for all assignments, and interfacing between students and the professor.

Camp Becket YMCA, Becket MA — *Head Counselor*

JUNE 2016 - AUGUST 2018 (Seasonal)

- Counseled in a heavily team-oriented environment to teach kids interpersonal and outdoors skills.
- Coordinated communication between camp and families with phone calls, emails, and in person meetings.
- Mentored as a "senior staff" member to train younger staff and CIT's
- Designed and ran activities supervising over 80 kids and leading 20 staff members

PROJECTS

Seam Carving, CS060

SPRING 2017

- Created Java program to manipulate .bmp files using 2D arrays.
- Implemented carving algorithm that allows images to be resized without stretching, squashing, or cropping.

BST Spell Checker, CS070

FALL 2018

- Designed implementation of a Binary Search Tree in C++ with randomized insertion.
- Used object oriented programming to abstract spell checking for enhanced usability.

Markov Model, CS005

FALL 2017

- Implemented algorithm that uses a Markov Model to create new pieces of writing based on examples (ex. Dr.Seuss poems).
- Gained experience using dictionaries turn written input into a usable model.

SKILLS

Very skilled in: **Python · Java · C++ · C · Git**

Also comfortable with: **Swift · HTML/CSS · mySQL · Ruby**

Fundamentals: Complexity analysis, Finite-State Machines, Recursive techniques, Basic Processor Architecture, Data Structures, Functional Programming, Object-Oriented Programming, Program design.

EDUCATION

Pitzer College, Claremont CA —
B.A. Computer Science

EXPECTED GRADUATION MAY 2021

As a student of **Pitzer College** who is majoring in CS at **Harvey Mudd College**, I have been able to gain a strong technical and interdisciplinary approach to problem solving.

SELECTED COURSEWORK

Computer Systems, Harvey Mudd

CS105 - Spring 2019

- Data representations, processor architecture, program optimizations, virtual memory, system-level I/O, and concurrent programming

Principles of Computer Science, Harvey Mudd

CS060 - Spring 2017

- Software construction, hardware organization, and limitations of computers.

Data Structures and Program Development, Harvey Mudd

CS070 - FALL 2018

- Abstract data types, efficient data structures for these data types, runtime analysis of data structures

Discrete Mathematics, Pitzer

MATH055 - FALL 2018

- Combinatorics, Graph theory, and Number theory with a focus on creative problem solving.