ALIZA CAMACHO

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EDUCATION

Candidate for B.A. in Computer Science and Anthropology

SEPT 2016 – MAY 2020

- Coursework: Product Creation for All, Computer Programming and Problem Solving, Data Structures, Combinatorics and Graph Theory
- Spring 2018: Foundations of Computer Systems

EXPERIENCE

Research Assistant

SEPT 2017 - PRESENT   Wellesley College   *Wellesley, MA*

- Design and create hands-on models to demonstrate mathematical concepts
- Test models through outreach activities with elementary school children
- Write a student perspective piece on the research for a math education periodical
- Present the research's purpose and final models at 2018 Ruhlman Conference

Fourth Grade Coordinator

SEPT 2016 – APR 2017   Chinatown Afterschool Program   *Boston, MA*

- Designed educational projects for the fourth-graders
- Tutored students on Math and English
- Facilitated counselor team-meetings to plan the weekly curriculum
- Wrote daily summaries on the children's academic progress and behavior

Academic Tutor

SEPT 2016 – APR 2017   Wellesley A Better Chance Program   *Wellesley, MA*

- Supervised evening study hours
- Assessed students' academic work loads and recorded daily progress in summaries
- Identified students' academic needs that require further support
- Guided them in executing study plans
- Coordinated with Academic Advisors and Resident Director

SKILLS

Languages: Java, Python, HTML, CSS, C

PROJECTS

Eulerian and Hamiltonian Puzzle (JAN 2018)

- Puzzles displaying different graphs that could possibly be Eulerian or Hamiltonian cycles
- Made for people of all ages to engage with math concepts in unique way

Musique (DEC 2017)

- Implemented using a Java GUI, the user inputs lyrics, chooses happy or sad, and a slow or fast song
- The program breaks the lyrics into syllables, then assigns notes based on a choice of two notes above or below the current note through a graph structure
- The song is displayed and can be played
- The final song is saved as a .wav file and the music is written into a .txt file

Feathering Grip Aid (DEC 2016)

- A glove designed for adaptive rowers with reduced grip strength to be able to row for extended amounts of time without trading off comfort or safety