

Michelle Zhuang

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Education

Swarthmore College, Swarthmore, PA

GPA: 3.7, May 2023

Anticipated BS Engineering and minor in Economics

- **Past Engineering and Computer Science Courses:** Data Structures and Algorithms, Numerical Methods for Engineering Applications, Electric Circuit Analysis, Mechanics
- **Current Engineering and Computer Science Courses:** Computer Architecture, Linear Physical Systems Analysis

Activities: Swarthmore Chorus, Garnet Singers, Library Reserves Assistant (Spring 2020)

Programming Experience

Data Structures and Algorithms, *Swarthmore College*, Swarthmore, PA

September 2020 – December 2020

- **Query Tool Program:** using a linear dictionary to implement a hashtable, the user is able to search through a given database of tweets by username or date
 - Uses a priority queue to return the tweets in order of popularity
- **Maze Program:** using stack and queue data structures, the program solves a maze by either breadth-first or depth-first search
 - Throws a runtime error if there is solution to the maze

Work Experience

Student Academic Mentor, *Swarthmore College*, Swarthmore, PA

May 2020 – Present

- Responsible for time management, organization, and study skills of 93 students
- Coordinates weekly email to my assigned students with academic deadlines and events on campus

Costume Shop Assistant, *Theatre Department*, Swarthmore, PA

September 2019 – May 2020

- Measured, sewed, and altered 20+ costumes for campus Theatre productions

Tutor, *Dare2Soar*, Chester, PA

September 2019 – May 2020

- Worked through Swarthmore College branch with Boys and Girls Club of Chester to aid elementary school 20-30 students in English and Math once a week
- Assisted students in reviewing and strengthening fundamental arithmetic skills

Listing Manager, *AirBnB*, Atlanta, GA

August 2016 – July 2019

- Managed family AirBnB business, monitoring and coordinating 3 separate locations
- Supervised scheduling of each facility across multiple web platforms
- Maintained web presence by updating photos, web page format, and availability
- Handled guest communications, provided directions and house regulations, and coordinated cleaning

Leadership Experience

DECA Club, *Auburn High School*, Auburn, AL

August 2017 – May 2019

- Led start-up business plan module that placed 3rd at the Alabama State Conference
- Worked with the East Alabama Food Bank to organize annual food drive at school, leading team of 14 volunteers and donating over 1500 cans

Youth Volunteer, *Auburn Public Library*, Auburn, AL

August 2016 – May 2018

- Spearheaded and organized events for the Youth Department to encourage reading
- Collaborated with department head on Reach for the Stars program, which impacted 100+ children and doubled interest and number of books read over 2 months

Volunteer, *East Alabama Medical Center*, Auburn, AL

August 2017 – May 2019

- Initiated and led "Project Linus," a donation drive to make and provide 300+ blankets for local children

Additional Information

Technical Skills: Microsoft Office Suite, Google Suite, Matlab (Intermediate), Python (Intermediate), C++ (Intermediate), SQL (Intermediate), Tableau (Intermediate), Stata (Intermediate), Java (Basic)

Languages: Native English, Conversational Mandarin Chinese, Intermediate French

Interests: Upcycling thrifted clothes, Chinese Folk Dance, Singing, Baking, Romantic Comedies