

Natalie Lubich

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EDUCATION

University of California, Santa Barbara

Bachelor of Statistics and Data Science

Santa Barbara, CA

Expected June 2024

- GPA: 3.9
- Relevant Coursework:
Introduction to Computer Science, Data Structures and Algorithms,
Principles of Data Science with R, Linear Algebra, Calculus II

WORK EXPERIENCE

Data Science Intern

SF Pathways to Citizenship

Jan 2020 - May 2020

- Extract and modify 10000 rows of data in a SQL database
- Attended the SFPCI Naturalization Workshops
- Assisted others with filling out citizenship forms using Excel Spreadsheets, checked in participants at registration and helped with logistical support; navigated people to correct stations
- Generated a statistics report organized documents and folders

Coding Tutor

The Village Project SF

Jan 2019 - Mar 2020

- Empowered students from SF marginalized communities to tackle STEM subjects
- Mentored students in subjects ranging from Math to Computer Science
- Helped students learn how to code for the first time
- Taught them study techniques and supported them throughout their learning

Elementary School Tutor

Oakland Hebrew Day School

March 2020 - June 2020

- Tutored a 3rd grader biweekly over Zoom during COVID-19 with a focus on English; helped him with reading skills, comprehension, and writing essays
- Walked them through their homework assignments step-by-step Assisted in tutoring other kids when needed.

Leader in Training

Jewish Community Center of the Bay

June 2019 - August 2019

- As a Leader In Training, LIT, helped camp counselors organize and lead art, film, and science programs for 5 to 11 year-olds
Inspired and supported campers as they discovered passions, learned new skills and made friends
- Took on a role as an elder who they looked up to

PROJECTS

GradeBook | *Grade Manager w/ Auto Grouping and Stats*

- Automatically calculates statistics and categorizes course data
- Automatic categorization of courses by coursename, subject etc...
- Allows user to add/update/delete entries in database
- Command line interface that allows the users to interact with the system
- Persistent storage using serialization
- Used PyTest to develop a comprehensive suit of tests for the program

MazeSolver | *Generates and solves (1000x1000)+ mazes*

- Used recursive algorithms and data structures like stacks to solve mazes correctly
- Data structure optimization allowed me to solve mazes as large as 7400x7400 quickly!
- Added extra feature: auto generate solvable mazes for user to solve
- Allows user to store grades and grade with various difficulty settings
- Implemented pre-order traversal to label nodes as discovered using BFS
- Used PyTest to develop a comprehensive suit of tests for the program

TECHNICAL SKILLS

- Python • R • SQL • Pandas • HTML • PyTest • CSS • Algorithms • Problem Solving • Analytical Skills • Digital Art
- UI/UX Design • Teamwork • Bilingualism • Graphic Design