

Sara Kay

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Education

Dartmouth College

Bachelor of Arts in Computer Science and Mathematics, Class of 2022

- Related coursework: Introduction to Programming and Computation, Introduction to Calculus (credit through AP program), Calculus of Functions of One and Several Variables, Introductory Statistics (credit through AP program)
- Involved with the Magnuson Center for Entrepreneurship, DEN LLC, WiCS and Academic Skills Center

Technical Experience

Coding Languages:

- Java - Introduction to Java, Johns Hopkins University Center for Talented Youth (CTY)
- C++ - CS 106: Programming Abstractions, Stanford University High School Summer College
- Python - CS 1: Introduction to Programming and Computing, Dartmouth College

Projects:

- Mountain Path Finder: Given a set of topographic data, used multiple algorithms to calculate the best paths and produced a visual representation of the elevation data (Java)
- Maze Solver: Used Dijkstra's algorithm to solve multiple labyrinths
- City Sorter: Used the quicksort algorithm to sort a given input of cities based on population, location and alphabetical order

Work Experience

User Researcher

- Unmasked* 09/2018 - Present Hanover, NH
- Conducting interviews and beta testing for the *Unmasked* app created by Dartmouth students with the goal of starting discussions about mental health and raising awareness about on-campus resources
 - Estimated launch date - Winter 2019

Tutor

- Dartmouth College Academic Skills Center* 09/2018 - Present Hanover, NH
- Providing one-to-one support for students in Math 3: Introduction to Calculus

Tutor

- Dr. Takahashi Juku LTD Tutoring* 06/2018 - 08/2018 Honolulu, HI
- Worked with students K-12 in subject enrichment and standardized testing preparation full-time
 - Created customized curriculums and taught learning strategies based on specific student's learning needs

Blogger

- Immersive Worlds LLC* 07/2017 - 06/2018 Boston, MA
- Researched and wrote about current technology and trends related to virtual reality and augmented reality and its application in entertainment, retail and healthcare

Marketing Intern

- Meograph Inc.* 06/2016 - 08/2016 San Francisco, CA
- Learned about accessible app design and marketing strategies to increase customer engagement in products by promoting the Flippy app to peers and students