

LIZZIE HERNÁNDEZ VIDEA

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EDUCATION

Dartmouth College, Hanover, NH

June 2022

Bachelor of Arts, Major in Computer Science and Mathematics

GPA 3.96/4.0

- Honors/Awards: Rufus Choate Scholar (top 5% of class), Citations awarded for excellence in Honors Probability, Software Design and Implementation, Discrete Math for Computer Science, Problem Solving via Object-Oriented Programming, Combinatorics, Introduction to Programming, Introductory Physics, Drawing I, Composition and Research I-II
- Relevant Coursework: Machine Learning, Artificial Intelligence, Algorithms* (*Winter 2021), Human-Computer Interaction

SKILLS

Programming Languages: Java, C/C++, Python, SQL, Bash/Unix Shell, JavaScript, CSS, HTML

Other Technical: Git, React, Linux, UI/UX design, Figma, LaTeX, iMovie, MS Excel, MS PowerPoint, Photoshop

Languages: Bilingual Spanish and English, Intermediate Italian

EXPERIENCE

Contextual Dynamics Lab, Dartmouth College, Hanover, NH

September 2020

Incoming Research Assistant

- Will assist in applying and evaluating models to identify patterns in financial data
- Research stock market dynamics and learn about algorithmic trading to propose trades

Jacobson Laboratory, Dartmouth Geisel School of Medicine, Hanover, NH

July 2020 - Present

Undergraduate Researcher

- Develop, design, and collaborate on back end and front end of mobile apps used for behavioral data analysis and studies
- Learn about and assist in training of machine learning models for cognitive behavioral therapy and mental health diagnosis

Dartmouth College Department of Computer Science, Hanover, NH

Jan 2020 - Present

Teacher Assistant for Discrete Math and Introduction to Programming

- Write proofs and lecture notes for students and contribute to the preparation of lesson plans and assignments
- Grade lab projects, exams, and homework for 50+ students and provide feedback on proof writing or coding style
- Lead weekly recitations or office hours to help and engage 15+ students with the material and assist in debugging code

PROJECTS

Unmasked Project, React Native

Dec 2019 - Present

Senior Developer

- Collaborate on the development of Unmasked, a mental health app for students in 13 colleges with over 3,000 users
- Code and test new features and bug fixes, automate process of incorporating a new college to the app

Linear Games, JavaScript

June – Sept 2020

- Designed and developed games using methods in Linear Algebra to teach students math in a fun setting

LEADERSHIP & ACTIVITIES

Association of Women in Mathematics, Dartmouth College, Hanover, NH

Jan 2019 - Present

President/ Executive Board Member

- Collaborate with the executive board to plan and organize weekly events, such as forums on academia and research, to encourage women in math to learn more about the field
- Manage budget, create content for website to increase club membership, and delegate roles to new board members

Coder Dojo, Dartmouth College, Hanover, NH

Jan 2020 - Present

Volunteer

- Design lesson plans and teach coding principles to public school students in the Upper Valley

Saturday Academy for Talented Youth, Tegucigalpa, Honduras

2016 - 2018

- Participated in International Mathematical Olympiad in Cluj-Napoca, Romania (2018)
- Trained and helped train others in advanced math topics, awarded Silver Medal in the Honduran National Math Olympiad

Hogares CREA, Tegucigalpa, Honduras

2016 - 2017

Volunteer Tutor

- Tutored 20+ students at a children's home in Honduras in Math and English, organized workshops, and provided mentorship.