

LIZZIE HERNÁNDEZ VIDEA

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EDUCATION

Dartmouth College, Hanover, NH

Expected **June 2022**

Bachelor of Arts, Major in Computer Science and Mathematics

GPA 3.96/4.0

Coursework: Machine Learning, Artificial Intelligence, Human-Computer Interaction, Algorithms (Winter 2021)

Honors/Awards: Rufus Choate Scholar (top 5% of class), Citations awarded for academic excellence in Honors Probability, Software Design and Implementation, Discrete Math, Object-Oriented Programming, Combinatorics, and 4 other courses

WORK EXPERIENCE

Jacobson Laboratory, Geisel School of Medicine, Hanover, NH

July 2020 - Present

Full-Stack Software Developer/ Undergraduate Research Assistant

- Develop and collaborate on back end and front end of mobile apps for behavioral data analysis using **Flutter** and **Firebase**
- Research and learn about digital solutions to assess and treat mental health problems
- Assist in training of machine learning models for cognitive behavioral therapy and mental health diagnosis

Dartmouth Department of Computer Science, Hanover, NH

Jan 2020 - Present

Teacher Assistant for Discrete Math for Computer Science and Introduction to Programming

- Grade projects, exams, and homework for 50+ students, providing personalized feedback on coding or proof writing style
- Lead weekly office hours to help 20+ students with the material and assist in debugging code
- Write detailed solutions to weekly problem sets for students' use using **GitLab** and **LaTeX**

Grupo Videas, Tegucigalpa, Honduras

June 2019 – Aug 2019

Information Technology Intern

- Assisted with trouble shooting and maintenance of computer hardware and software
- Designed and developed website to provide company's overview and showcase projects using **HTML**, **CSS**, and **JavaScript**

Hogares CREA, Tegucigalpa, Honduras

Aug 2017 – Aug 2018

Volunteer Math and English Instructor

- Instructed math and English courses to classes of 10+ students at a children's home to prepare them for higher education
- Organized weekly workshops for professional development and mentorship

SELECTED PROJECTS

Unmasked Project, Senior Developer of mobile app

Dec 2019 - Present

- Collaborate on the development of a mental health app in **React Native** for students in 13 colleges with 3,000+ users
- Code and test new features, fix bugs, and work on expansion of the app for monthly updates

Linear Games, Designer and Front-End Developer of web app

June 2020 – Sept 2020

- Designed and drove the vision of a series of games using methods in linear algebra
- Implemented games using **ReactJS** to teach students matrix addition and multiplication in an interactive setting

Tiny Search Engine, Developer of individual project

April 2020 – May 2020

- Built a command line tool in **C** for crawling web pages, responding to user queries, and ranking results
- Documented design and implementation of project, earning a citation for academic excellence and superior coding style

SKILLS & ACHIEVEMENTS

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

Technical Strengths: Git, React/React Native, Linux, Machine Learning, UI/UX design, Figma, LaTeX

Achievements: Nexus Fellow at D.E. Shaw & Co., International Math Olympiad (Cluj Napoca, Romania) 2018 participant, Honduran Math Olympiad Silver Medal, La Estancia High School Valedictorian

Languages: Spanish (native), English (native), Italian (intermediate)

LEADERSHIP & ACTIVITIES

Association of Women in Mathematics, President

Jan 2019 - Present

- Lead board of 5 students to host weekly events for professional development and community building
- Manage budget, create content for website to increase club membership, and delegate roles to new board members

Coder Dojo, Coding Instructor

Jan 2020 - Present

- Instruct beginner level programming courses to 15+ students at public schools in the Upper Valley
- Aid in the design of Scratch and Python courses to implement in after school programs