MARÍA PAULA MORA

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EDUCATION

Dartmouth College, Hanover, NH   **Expected: Jun 2022**
Bachelor of Arts, Major: Computer Science Modified with Digital Arts, *Minor:* Psychology   **GPA 3.93/4.0**
Relevant Coursework: Software Design & Implementation, Foundations of Applied Computer Science, Computer Animation, Object-Oriented Programming, 3-D Digital Modeling, Game Design Studio, Human-Computer Interactions, Artificial Intelligence
Honors: Rufus Choate Scholar (top 5% of annual grade averages), James O. Freedman Presidential Scholar, Sophomore Scholars Research Assistant, 6 Citations for Academic Excellence

SKILLS

- <u>Computer Languages</u>**:** Python, Java, C, C++, C#, Bash/Unix Shell, SQL, JavaScript, HTML, and CSS
- <u>Other Technical Strengths</u>**:** Autodesk Maya, 3-D Digital Modeling, MNE analysis, Machine Learning, Virtual Reality, Unity 3-D, UI/UX design, Figma, Git, Twine, Linux, and SugarCube
- <u>Languages:</u> Spanish (Fluent), English (Fluent), and French (Proficient)

SELECTED PROJECTS

Tiny Search Engine, C   **Apr 2020 – May 2020**
- Built a command-line search capable of crawling webpages, parsing web content, and responding to user's UI queries
- Returns a list of page matches ranked with respect to frequency of occurrences

Sudoku, C   **May 2020 – Jun 2020**
- Built a module capable of creating unique sudoku boards and solving them using an efficient recursive algorithm
- Collaborated using Git and Slack with four peers to implement and design this project
- Created a graphical interface to showcase and solve different difficulty levels including a Samurai Sudoku

Part of Speech Tagger, Java   **Oct 2019 – Nov 2019**
- Used a Hidden Markov Model and Viterbi Algorithm to label each word from a file or user input with its part of speech
- Tested on a file with 10,000 words and had a 97% accuracy rate

Portfolio Personal Website, HTML, CSS, and JavaScript   **Aug 2020**
- Coded my own personal website showcasing both my art portfolio and my coding samples (mariamora.me)

WORK EXPERIENCE

Dartmouth College - Computer Science Department, Hanover, NH
Incoming James O. Freedman Presidential Scholar Research Assistant   **Sept 14, 2020 - Mar 31, 2020**
- Will be working in the computer science lab creating machine-learning algorithms that train classifiers
- Classifying unknown microstructures in order to be able to make predictions about the environment

Teaching Assistant for Digital Animation, 3-D Digital Modeling, Intro to Computer Programming   **Mar 2020 - Nov 2020**
- Lead weekly sections of 5 students to review python concepts, assist in debugging, and solve any Autodesk Maya issues
- Grade projects and exams for 55+ students and provide personalized feedback on code functionality and style

Dartmouth College – Psychology Department, Hanover, NH   **Sept 2019 - Sept 2020**
Sophomore Scholars Research Assistant
- Coded in C# and designed in *Unity3D* to study the effects of a VR stimulus on the human brain using an fMRI scan
- Processed 300 data sets from EEG studies using *MATLAB* and analyzing said data to apply them to Machine Learning

Buzz Digital Partner, San José, Costa Rica   **Jun 2019 - Aug 2019**
Marketing Intern
- Designed websites, animated commercials, and brainstormed potential advertising campaigns for the clients

Compartamos la Mesa, San José, Costa Rica
Co-Founder of Campaign   **Apr 2016-Present**
- The campaign seeks to construct a viable non-profit route where businesses can donate food without fear of a lawsuit
- Introduced a bill to Costa Rican Congress that seeks to reduce the liabilities of food donation
- Gathered the endorsement of over 10 congressmen including the country's vice president at the time, Ana Helena Chacón
- Distinguished as one of Harvard University's Global Trailblazers

ADDITIONAL INFORMATION

- <u>Leadership Positions:</u> Housewoman for Sigma Delta, Treasurer of the Latin American Studies Association
- <u>Activities:</u> Coder Dojo, Women in Computer Science, Templating & Layout at The Dartmouth, Rewriting the Code
- <u>Interest:</u> Painting, Drawing, Skiing, Travel, Baking, Digital Design, Animation, Reading