ELIZABETH FREY

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EDUCATION

2020 – 2024	**DARTMOUTH COLLEGE**	Hanover, NH

Bachelor of Arts, Major in Computer Science and Neuroscience
- Rufus Choate Scholar (2020 – 2021) awarded to the top 5% of the class of 2024, 4.0/4.0 GPA
- Relevant Coursework: Problem Solving via Object-Oriented Programming, Software Design and Implementation, Computer Networks (citation), Intro to Neuroscience, Discrete Math for Computer Science, Mini Web-Dev Course, Experimental Design and Methodology (Statistics)

Winter 2021	**TUCK SCHOOL OF BUSINESS AT DARTMOUTH**	Hanover, NH

Tuck Business Bridge Program, a highly-selective 3-week program taught by MBA faculty

EXPERIENCE

2021 – Present	**COMPUTATIONAL AND COGNITIVE NEUROSCIENCE LABORATORY**	Hanover, NH

Researcher under Alireza Soltani, PhD. (Funded by the National Science Foundation)
- Examined how attention plays a role in the different strategies people use to learn about high dimensional stimuli (10-12 hours/week during the school year)
- Used **HTML/CSS**, **JavaScript**, and **cPanel** to create the online version of the experiment and taught 2 PhD students to navigate **GitHub** and **cPanel** for better collaboration
- Fit the subject's choices to relevant strategies using PTB-3 in **MATLAB** and rigorous regression—pilot experiment demonstrated a tendency to choose a feature-based strategy
- Designed an outreach app using **Figma**, and coded it using **Flutter**, **Dart**, **SQL**

2021 – 2021	**DEPARTMENT OF COMPUTER SCIENCE, DARTMOUTH COLLEGE**	Hanover, NH

Teaching assistant for Problem Solving via. Object Oriented Programming (Java)
- Graded & gave feedback for assignments, ran drills for group of 8-12 students, held debugging sessions and general office hours (12 hours/week during the school year)

Summer 2019	**N.1 INSTITUTE FOR HEALTH**	Singapore, Singapore

Intern for National University of Singapore
- 1 of 5 high students chosen to work with their Curate.AI precision medicine program, a software designed to find the optimal dosage of medication for hypertension patients
- Created **Qualtrics** questionnaire to minimize potential patient error, leveraged **Python** to analyze data from patient symptoms, presented findings to dean of the institution

PROJECTS

2020-Present	**DARTUP, MAGNUSON CENTER FOR ENTREPRENEURSHIP**	Hanover, NH

Vice President, Cofounder
- Lead team of six in creating social entrepreneurship competition that focuses on the interdisciplinary aspect of start-ups (hardware, software in addition to business, finance)
- Acquired $4000+ in funding for 8 workshops throughout 2021-2022 school year with 15-20 participants each

Fall 2021	**PEER TO PEER DROPBOX** [*GOOGLE DRIVE FOLDER]	Hanover, NH

Team Member in Computer Networks class project
- Led team (**scrum** method) in leveraging **Python** to create functional **P2P** Dropbox-like program
- Implemented threading, select, and socket functionality for simultaneous upload and download
- Coded the UDP socket mini reliable transport layer (mrt_layer) used throughout this project
- Received citation for best undergraduate performance in the class

Winter 2021	**PERSONAL WEBSITE** [GITHUB]	Singapore, Singapore

Created a website with my personal information
- Created and designed a website using **React, HTML/CSS/SCSS, JavaScript**

Winter 2021	**TINY SEARCH ENGINE** [*GOOGLE DRIVE FOLDER]	Hanover, NH

Individual Lab Assignment for Software Design and Implementation
- Using specification documents, coded a tiny search engine in **C** that crawls a specified depth of web pages, indexes keywords, and takes queries

PERSONAL

- **Proficient**: Java, Python, Bash, C, Git, Make, React, Linux, HTML/CSS with JavaScript,
- **Experienced**: APIs, MATLAB, Flutter, Dart, SQL

*Since I am not allowed to put these on public GitHub repositories, please find other projects outside of my GitHub here:
https://drive.google.com/drive/u/0/folders/1mGgkE9cAx5TdtYJ11A4kftEGn0yIVHGP