

ELIZABETH W. FREY

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EDUCATION

Dartmouth College, Hanover, NH **Jun 2024**
GPA 4.0/4.0
Bachelor of Arts, Computer Science Major, Neuroscience and Math Minors
Relevant Coursework: Object-Oriented Programming, Software Design and Implementation, Networks, Full Stack Web Development, Machine Learning, Statistics, Discrete Math for Computer Science, Linear Algebra, UI/UX
Honors/Awards: Rufus Choate Scholar (2020 – 2022) awarded to top 5% of class, Citation in Networks and Full Stack Web Dev

Tuck School of Business, Hanover, NH **Nov 2021-Dec 2021**
Tuck Business Bridge Program

RELEVANT EXPERIENCE

Tesla, Palo Alto, CA **Sep 2022-Present**
Software Engineering Intern

- Working on multithreaded systems with Tesla's Gateway Energy team in Go—achievements to be added

Digital Applied Learning and Innovation Lab, Hanover, NH **Mar 2022-Present**
Software Developer, Mentor

- Work with small teams to implement and deploy a different functioning full stack app every 10 weeks (15-20 hours/week during school year). Direct engagement with clients to ensure application caters to their needs:
- 2022 Spring: **Flourish**—frontend app developer on **React-Native**, **Node.js**, **MongoDB**, **Express.js** application. Mitigated a critical authentication vulnerability that affected 83% of users
- 2022 Summer: **FitWit**—developer lead, full stack developer on **React-Native**, **Node.js**, **MongoDB**, **Express.js**, **Expo** application. Created app architecture, wrote backend, and mentored two new developers on the technology stack

Computational and Cognitive Neuroscience Laboratory, Hanover, NH **Mar 2021-Jun 2022**
Researcher and Software Developer under Alireza Soltani, Ph.D.

- Utilized **HTML/CSS**, **JavaScript**, and **cPanel** to convert and optimize the online version of the experiment. Online version increased participant numbers by 350% (21 to 74). Worked 10-20 hours/week during the school year

Department of Computer Science, Dartmouth College, Hanover, NH **Jan 2021-Nov 2021**
Teaching Assistant for Problem Solving via Object-Oriented Programming (Java)

- Gave feedback, graded assignments, and ran programming drills for groups of 8-12 students, created and held debugging sessions (200+ students attended over the three terms) and general office hours (12 hours/week during the school year)

ADDITIONAL EXPERIENCE

DartUP, Magnuson Center for Entrepreneurship, Hanover, NH **Jan 2021-Present**
Cofounder and Vice President

- Co-lead team of 15 creating social entrepreneurship challenge, focusing on the inter-disciplinary coordination of start-ups
- Acquired \$4000+ in funding for 8 workshops in 2021-2022 with 100+ total participants

PROJECTS

WellBuddies **Apr 2022-Jun 2022**
HackDartmouth 2022, Full Stack Web Development

- Received 2nd place Health and Wellness award for landing page using **React**, **HTML**, **CSS**, and **Firebase**
- Converted into full stack mobile application using **React Native**, **MongoDB**, **Node.js**, **Express.js** for class final project
- Supports account creation, persistent login, and custom mental health activity suggestions based on calendar availability

Peer to Peer Dropbox **Nov 2022**
Computer Networks Final

- Led team (**scrum leader**) in leveraging **Python** for functional **P2P** Dropbox-like program
- Implemented threading, select, and sockets for simultaneous upload/download, and the UDP reliable transport layer

Parts of Speech Tagger **Nov 2020**
Java Program

- Used **data structures** and **OOP** fundamentals to create program that tags words based on their part of speech, using Hidden Markov Model and Viterbi backtracking. Labelled 36,000 words from the Brown Corpus with 96% accuracy

SKILLS & CERTIFICATIONS

Technical: Java, JavaScript, Python, React/React-Native, Node/Express, MongoDB, Git, HTML/CSS, Go, Networking
Activities: Kappa Kappa Gamma Sorority, Women in Computer Science, HackDartmouth, Singapore Students Association