# CAROLINE TORNQUIST

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## EDUCATION

**Dartmouth College,** Hanover, NH **June 2022**
*Bachelor of Arts, Major in Computer Science, Minor in Economics* **Major GPA 3.75/4.0**
Key Coursework: Software Design and Implementation, Full Stack Web Development, Object Oriented Programming, Foundations of Applied Computer Science, Discrete Mathematics in Computer Science, Econometrics
Honors: Citation for academic excellence in Software Design and Implementation

**HB Woodlawn Secondary Program,** Arlington, VA **May 2018**
ACT: 36/36, SATII: Math II 800/800 **GPA 4.4/4.0**
Honors: National Merit Commended Scholar, National AP Scholar, 2018 Arlington Magazine Outstanding Teen

## TECHNICAL SKILLS

**Languages:** Java, C, HTML, CSS, MATLAB, JavaScript, Bash **Other:** React/Redux, Node/Express, SASS

## EXPERIENCE

**Medius Research,** Hanover, NH **August 2020-Present**
*Lead Engineer (Full Stack) and Product Manager*

- Managing a team of five engineers to build the MVP, a crowdsourced investment social media site that uses the MERN stack, to be presented before investors in late 2020
- Spearheaded creation and styling of landing, community and profile pages to improve user experience

**Dartmouth Dept. of Computer Science,** Hanover, NH **June 2020-Present**
*Computer Science Research Assistant, Institute for Security, Technology and Society*

- Using machine learning tools including logistic regression and support vector machines to build predictive models of Chinese border incursions into India and the South China Sea
- Coding association rules using RapidMiner and Pandas to accurately determine the "triggers" that precede incursions

**US House of Representatives Committee on Science, Space and Technology,** Washington, DC **June 2019-August 2019**
*Policy Intern*

- Conducted research and wrote recommendation briefs for bills on space exploration, disaster relief and climate change
- Authored letters to FCC Chair Ajit Pai regarding 24GHz spectrum auction and its impacts on NOAA weather sensing
- Composed questions asked by Members of Congress at hearings on artificial intelligence and National Lab funding

## PROJECTS

**SubLit,** React/Redux, Node/Express, MongoDB **July 2020-August 2020**

- Collaborated to design and engineer a web app that connects students with leases to people trying to sublet for a term
- Implemented an API that supports CRUD operations, user authentication and instant messaging between users
- Developed "feed" page on frontend allowing users to view listings on a map and filter by various identifiers

**Search Engine**, C **April 2020-May 2020**

- Created module to parse webpages linked to a given URL, index their contents and process queries to search the pages
- Designed ranking algorithm that supports Boolean operators and outputs search results sorted by relevancy

**Part of Speech Tagger**, Java **June 2020**

- Used Hidden Markov Models and the Viterbi algorithm to label each word in a given sentence with its part of speech
- Trained on a large dataset, program is capable of tagging 35,000 words with 96% accuracy

## LEADERSHIP

**Dartmouth Women's Ultimate Frisbee** **Sept 2018-Present**

- Managed $10,000 budget and financial aid for 23-person team, booked hotels and vans and paid tournament fees
- Planned and led practices, constructed team strategy and workout schedule to improve team's fitness and skill
- Honors (as player): Member of Team USA Juniors (Gold Medal, 2018 World Championships), 2019 D1 All-Freshman 1st Team New England, 2019 Highest Scoring Freshman in D1 College (third highest overall)

## ACTIVITIES & INTERESTS

Activities: Peer Tutor in Intro CS Courses, Women in Computer Science, Ultimate Frisbee, Alpha Xi Delta Sorority
Ask me about: Hiking in the White Mountains, the Supreme Court, how to make the perfect pancake