Emma Bethel

she/her

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(415) 341-2747

Education

Tufts University School of Engineering, Medford, MA
> Bachelor of Science in Computer Science, 2024
> GPA 3.97, Tau Beta Pi Honors Society 2022-Present

Lowell High School, San Francisco, CA
> Class of 2020, Shield and Scroll Honors Society 2019-2020

Work Experience

Tufts University Computer Science Department, Medford, MA

Algorithms TA, Spring 2023 - Present // Discrete Math TA, Spring 2022 - Fall 2022
- *Hold office hours to answer student questions and go over new content.*
- *Grade and give feedback on proofs, algorithm designs, and other math work.*

Pax et Lox Kosher Deli, Medford, MA

Student Manager, Fall 2023 - Present // Student Worker, Fall 2020 - Spring 2022
- *Prepare and hand off sandwich orders to customers, as well as train new employees and manage break schedules.*

Sensata Technologies, Attleboro, MA

Software Engineering Intern, Summer 2023
- *Designed and implemented a signal processing algorithm, as well as associated GUI, for detecting faulty sensors.*

Ciena Corporation, Hanover, MD (Remote)

Cloud Engineering Intern, Summer 2021 - Summer 2022
- *Designed and programmed a REST API and attached database using the Django REST Framework, with features based on discussions with future users.*
- *Set up infrastructure for running a web server remotely in Docker containers using AWS ECS and Fargate.*

Tufts Center for Engineering Education and Outreach, Medford, MA

Research Intern, Winter 2020
- *Expanded, documented, and created examples for software library for JavaScript control of LEGO SPIKE Prime robots.*

Activities

Tufts Assistive Agent Behavior and Learning Lab, Medford, MA

Undergraduate Research Assistant, Fall 2022 - Present
- *Provide data visualizations and other assistance to Ph.D. researchers.*
- *Regularly discuss recent advancements and possible future work in the Human-Robot Interaction field.*

Tufts Robotics Club, Medford, MA

President, Fall 2023 - Present // Secretary, Spring 2022 - Spring 2023 // General Member, Fall 2020 - Spring 2022
- *Plan and lead workshops in areas such as computer vision, motor control, and ROS.*
- *Organize internal robotics competitions, including a self-designed computer vision competition.*
- *Design and program robots for local robotics competitions, such as the Harvard Pacbot Competition.*

Skills

- Python, C/C++, Java, C#
- HTML, CSS
- Agile Framework

- OpenCV, PyPlotlib
- SkLearn, Pytorch, Tensorflow
- Django, Flask, SQLAlchemy

- ROS
- SQL
- Microsoft Office