

Timothy Panilaitis

978-437-0931 | timothy.panilaitis@gmail.com

EDUCATION

Tufts School of Engineering, Medford, MA

Expected, May 2027

Bachelor of Science in Computer Science, Minor Human Factors and Math

GPA 3.54, Dean's List

Relevant Courses: Programming Languages, Tech and Managerial Communication, Algorithms, Machine Learning

TECHNICAL SKILLS:

Software/Tools: Git, Vercel, Supabase, MongoDB, Claude, Figma, Arduino

Programming Languages: C, C#, C++, Python, HTML, JavaScript, SQL, NoSQL

PROJECT EXPERIENCE

JumboHack, Tufts University

February 2025

- Led the software development for a braille printing robot, collaborating with another Computer Science student to create a codebase that converted PDFs and text files into Arduino motor instructions.
- Researched and implemented motor and Arduino wiring using ChatGPT and online resources, working closely alongside a team of Mechanical Engineers.
- Claimed first in the "Mad Hatter" track, competing against 325 participants in an open-category challenge.

WORK EXPERIENCE

Tufts University, Medford, MA

Dec 2024 – Present

Campus Center Manager

- Ensured smooth operations and building security as the sole authority during shifts, demonstrating reliability and accountability.
- Supported students and campus groups by providing information, resolving issues, and fostering a welcoming campus environment.

Project Politic Internship, New York City, NY

May 2026 – August 2026

Lead Data Analyst Intern

- Served as principal data analyst for Dr. Robert Eisinger's book project, Podcast Politics and the Demise of Civic Virtue, collecting and analyzing approximately 950,000 minutes of transcript data across 17,153 podcast episodes from 2023–2025.
- Developed Python pipelines to programmatically gather, clean, normalize, and store podcast transcripts, expanding the dataset from 60 episodes per podcast to all available episodes within the research timeframe.
- Built a hybrid database system using Supabase PostgreSQL and MongoDB with a custom Python abstraction layer to manage cross-database operations and support large-scale transcript analysis.
- Designed and parallelized a modular sentiment analysis framework integrating the Lexicoder Sentiment Dictionary and pretrained Twitter-RoBERTa through Hugging Face Inference Endpoints.
- Aggregated results programmatically across time periods and podcast categories using Python's Openpyxl.

Tufts University, Medford, MA

Sep 2025 – Dec 2025

Graduate Web Development Teaching Assistant

- Guided the learning of ~18 students through tough topics, answering ~4 piazza questions, grading ~10 assignments and leading ~60 minutes of office hours weekly to foster full stack programming skills.
 - Trusted to teach and lead graduate students due to strong proficiency in web technologies; CSS, HTML, Node.js, PHP, SQL, and NoSQL.
-