Peter C. Morganelli

+1 (508) 330 3922 | peter.morganelli@tufts.edu | https://github.com/pmorganelli | 🏠My Portfolio

EDUCATION

Tufts University   **Medford, MA**
Bachelor of Science in Computer Science   *Fall 2023 - Spring 2027*
- **Relevant Coursework:** Machine Structure and Assembly, Data Structures + Intro Computer Science (C++), Calculus I, Generative AI

Milford High School   **Milford, MA**
- Top 10% in class; Hank Schroeder Computer Science Scholarship   June 2023

EXPERIENCE

Tufts University   **Medford, MA**
Data Structures Teaching Assistant | C++   *September 2024 - Present*
- Held regular office hours to support students with homework assignments and course concepts
- Evaluated and graded student submissions, assessing code functionality, style, and organization
- Provided constructive feedback to students, facilitating their understanding and application of data structures principles

Tufts JumboCode | *React, Clerk, TypeScript, Next, TailwindCSS, DrizzleORM, GitHub, Slack, Figma*   **Medford, MA**
Software Developer   *October 2023 - Present*
- Helped develop a full-stack inventory website for a local Somerville theater with a group of 10 developers
- Contributed through weekly GitHub tickets assigned by lead developers (Liam Strand and Amitav Nott)
- Worked on GET and POST API handlers in TypeScript, created and fixed several React components, and styled them with Tailwind CSS
- Designed a page to allow the user to take a picture of an item and post their product's name, description, filters, and custom image carousel
- JumboHack Hackathon Participant

Department of Conservation and Recreation (DCR)   **Milford, MA**
Pool Lifeguard   *June - August 2022, 2023, and 2024*
- Rescued seven children in the water
- Responded to all emergencies and ensured proper cleanliness of the facility while enforcing pool rules and scanning zones in the water

PROJECTS

Advanced Portfolio Website | https://petermorganelli.vercel.app | *React, JavaScript, Tailwind, ThreeJS, EmailJS*   **July 2024**
- Developed a responsive portfolio website, demonstrating strong front-end web development skills and modern web design principles
- Implemented responsive and interactive components including a smooth navigation menu, project showcase, and experience sections
- Integrated interactive complex three-dimensional objects with ThreeJS and a fully-functional Contact form with EmailJS

College Break Matcher | *React, Next, TypeScript, Node, Python, Flask, BeautifulSoup*   **May - Aug 2024**
- Engineered a full-stack application to scrape and aggregate academic calendars from various colleges, displaying overlapping breaks on a dynamic React calendar interface
- Designed and integrated a user-friendly interface with React calendar components to visually represent and compare overlapping academic breaks, improving accessibility and usability for students planning shared activities.

gerp | *C++*   **May 2024**
- Replicated the Unix "grep" program using C++, Hash Tables, and Vectors
- Implemented indexing and search functionality for strings, capable of handling 5GB of text files (~900 million words)

CalcYouLater | C++   **April 2024**
- Created a postfix notation calculator using a Stack for arithmetic and special commands parsing

LEADERSHIP & ACTIVITIES

Tufts Leadership Training Institute (LTI)   **Milford, MA**
Founder   *June 2024 - Present*
- Independently recruited 15+ mentors for an 8 week program
- Spearheaded all meetings, recruitment, and admission to the program
- Worked alongside MIT directors to train college students how to advise high school students on community service projects

Massachusetts Institute of Technology's Leadership Training Institute (MIT LTI)   **Cambridge, MA**
Project Mentor   *February 2023 - May 2024*
- Mentored students on community service projects, including one student who was chosen to present out of 50+ peers
- Accomplished through leading weekly two-hour in-person development sessions at MIT
- Chosen ambassador to expand LTI to Tufts

ADDITIONAL SKILLS

Languages: C++/C, Python, Makefile, JavaScript, TypeScript, CSS, HTML
Technologies & Frameworks: React, TailwindCSS, BeautifulSoup, Framer Motion, ThreeJS, Linux, Figma, Git