

# Peter C. Morganelli

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## EDUCATION

### Tufts University

*Bachelor of Science in Computer Science (BS in CS)*

Medford, MA

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

*Data Structures Teaching Assistant | C++*

Medford, MA

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

- Developed 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 enabling users to upload pictures in a custom image carousel with item details such as name, description and filter tags
- JumboHack Hackathon Participant

### Department of Conservation and Recreation (DCR)

Milford, MA

*Pool Lifeguard*

June - August 2022, 2023, and 2024

- Rescued eight children in the water
- Monitored and assessed pool zones effectively, utilizing systematic scanning techniques to uphold safety standards and prevent incidents

## PROJECTS

**Advanced Portfolio Website** | <https://petermorganelli.vercel.app> | *React, JavaScript, Tailwind, ThreeJS, EmailJS, Framer Motion*

July 2024

- Designed and developed a highly responsive portfolio website through the use of React and Tailwind, showcasing advanced front-end development skills and adherence to modern web design principles
- Engineered interactive components including a dynamic navigation menu, detailed project showcase, and experience sections by leveraging React and JavaScript for a seamless user experience
- Integrated complex three-dimensional objects with ThreeJS and implemented a fully-functional contact form utilizing EmailJS, enhancing user interaction and engagement on the platform

**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)

Medford, MA

*Founder*

June 2024 - Present

- Successfully recruited over 15 mentors for an intensive 8-week program, ensuring a high-quality mentorship experience
- Spearheaded all meetings, planning, funding, and admission to the program
- Worked alongside MIT directors to effectively 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

## ADDITIONAL SKILLS

**Languages:** C++/C, Python, Makefile, JavaScript, TypeScript, CSS, HTML

**Technologies & Frameworks:** React, TailwindCSS, BeautifulSoup, Framer Motion, ThreeJS, Linux, Figma, Git