Peter C. Morganelli

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EDUCATION

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

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

EXPERIENCE

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

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
- Implemented data retrieval and submission functionalities by working on GET and POST API handlers using TypeScript, enhancing several React components and styling them with TailwindCSS
- Facilitated user content management by designing a page that enables image uploads into a custom carousel, detailing item information such as name, description, and filter tags while using Figma for design prototyping

Massachusetts Institute of Technology's Leadership Training Institute (MIT LTI)   **Cambridge, MA**
Project Mentor   *February 2024 - May 2024*
- First-ever non-MIT student to become a mentor at LTI, was previously a chosen presenter to present out of 70+ LTI students in 2022
- 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

PROJECTS

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.

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

gerp | *C++*   **May 2024**
- Replicated the Unix "grep" program in C++ using Hash Tables, Vectors, and Maps for a Data Structures class
- Achieved efficient indexing and search functionality for strings capable of handling a minimum 5GB of text files (~900 million words)

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

SKILLS

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