

DOMINIC C. MAGLIONE

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EDUCATION

Boston University

Expected May 2024

BA/MS in Computer Science

- GPA: 3.80 / 4.00, Dean's List (4 Semesters)
- Courses: Software Engineering, Database Systems, Computer Systems, Data Structures and Algorithms, Information Security, Data Science, Analysis of Algorithms, Probability in Computing

TECHNICAL SKILLS

C, Python, C++, Java, JavaScript, Linux, Bash, PowerShell, Git, Vim, LaTeX, SQL, MongoDB, QEMU, Docker

EXPERIENCE & CAMPUS LEADERSHIP

Teaching Assistant, *Boston University*

Sep 2022 — Present

- Support students in CS 411 Software Engineering, an advanced course focused on software tools and testing methodologies, retrofitting, structured design, and programming, and fault tolerance.
- Instruct lab sections, hold weekly office hours, design deliverable requirements, answer student questions on course forum boards, and grade weekly case study assignments for 240+ students.

President, *Boston University Information Lab & Design Space*

Mar 2022 — Present

- Conduct meetings with BU CS Administrative Staff regarding external club affairs such as continued clubroom maintenance, event management, and BU Shared Computing Cluster activities.
- Oversee highly-attended club-sponsored events, act decisively on information provided by other elected officers, and review and approve proposed budgets totaling ~\$7k per academic year.

Course Assistant, *Boston University*

Sep 2021 — May 2022

- Support students in CS 210 Computer Systems, a foundational course focused on systems programming in C, digital logic, memory management, operating systems, and assembly language.
- Assist instruction of lab sections, hold weekly office hours, answer student questions on course forum boards, and grade bi-weekly assignments for 230+ students.

Director of Recruitment, *Upsilon Pi Epsilon*

Apr 2021 — Apr 2022

- Led UPE's semesterly recruitment process by planning informative, social, and professional events for an academically diverse and rapidly expanding computer science student community.
- Facilitated application process, included creating application form, developing 15 programming and logic-based interview questions via committee, and arranging 60+ interviews each semester.

PROJECTS

Personal Website — React, Tailwind CSS

Live website built using React, Tailwind CSS to showcase work experience, projects, and technical skills.

Dotfiles — C, Shell Script

Customization files, .vimrc, .bashrc, .ssh, etc., to personalize Linux or other Unix-based systems.

TestChain — C++, SHA-256

Sample Blockchain built as a precursor to creation of a ERC-20 Token on the Ethereum Network.

Photoshare — TypeScript, Flask

Web-based photo sharing application with a decoupled architecture and responsive user interface.

Pathfinding Visualizer — Python, Pygame

Visualizes the A* Algorithm and Dijkstra's Algorithm using Python and various modules such as Pygame.

Personal Archive — HTML, Gemini

Comprehensive and detailed project archive leveraging new internet application layer protocol Gemini.