

# DOMINIC C. MAGLIONE

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## EDUCATION

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### **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

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

## EXPERIENCE & CAMPUS LEADERSHIP

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### **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

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### **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.