

Thomas Ha

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Education

Brown University | Freshman, Sc.B., Applied Mathematics – Computer Science *Providence, RI · 2026 – present*

Coursework: CSCI 0190: Accelerated Intro to CS; MATH 0350: Multivariable Calculus With Theory; CSCI 0300: Fundamentals of Computer Systems (Spring 2027).

Sharon High School | High School Diploma, *summa cum laude* *Sharon, Massachusetts · 2022 – 2026*

Dual enrollment courses taken at Massasoit Community College (4.0/4.0 GPA).

Technical Skills

- *Programming Technologies.* Java, C#, C/C++, JavaScript, Git, PostgreSQL.
- *General Skills.* Linux, data structures & algorithms.
- *Cybersecurity.* Windows hardening, PowerShell/Bash scripting, attack vector research, OSINT.

Personal Projects

Tetragon Platform | Solo Full-Stack Developer *Sharon, MA · January 2026 – May 2026*

- Shipped a [full-stack TypeScript/Next.js/PostgreSQL logistics platform](#) from scratch, coordinating live operations for 80+ volunteers at the Sharon Math and Science Tournament
- Deployed secure user authentication and role-based access control across 4 tiers, including safeguards against privilege-escalation
- Implemented a build-on-commit Vercel pipeline with 100+ zero-downtime releases across the development lifecycle
- Engineered a scoring pipeline that accelerated grading by 60%, reducing errors to 1–2 total across 466 scored entries
- Conducted extensive manual testing with tournament staff, catching security vulnerabilities prior to the event

BU Research in Science and Engineering | Student Researcher *Boston, MA · June 2025 – August 2025*

- Architected a Pandas/NumPy data pipeline to clean and format 80,000+ labeled (legitimate/phishing) emails, enabling fellow researchers to train an [ML model](#) achieving 99.3% phishing detection accuracy, supporting AI-assisted threat detection use cases
- Translated technical ML methodology into accessible findings for a mixed technical/non-technical audience of faculty and peers at the [RISE Poster Symposium](#)

Leadership Experience

Recreation Department, Town of Sharon | Sailing Instructor *Sharon, MA · June 2026 – August 2026*

- Designed and implemented a custom sailing curriculum and textbook for the Town of Sharon, replacing cost-prohibitive US Sailing certification frameworks and reducing cost by over 90%
- Instructed 60+ beginner and intermediate students in boat handling and racing using our newly developed curriculum

Sharon Cybersecurity Club | Captain & Windows Lead *Sharon, MA · August 2023 – June 2026*

- Achieved the team's top score in the Windows category while training 4 new members, driving the team from a 2nd-place to a 1st-place state finish across consecutive CyberPatriot seasons (43rd nationally)
- Engineered a Windows hardening automation script in PowerShell based on CIS and STIG standards to patch 100+ security vulnerabilities, including network security, firewall, and Active Directory configurations

Sharon Math & Science Tournament | Tournament Director *Sharon, MA · August 2022 – June 2026*

Associate Director of Logistics
Science Chair

Aug 2024 – Aug 2025
Aug 2023 – Aug 2024

- Directed 70+ club members across problem-writing, logistics, and volunteering operations to organize a [regional tournament](#) for nearly 200 students, increasing year-over-year attendance by over 8%
- Managed a \$3,000 annual operating budget to procure competition materials and fund venue logistics with zero cost overruns

Achievements

- **National Merit Scholarship:** *Finalist & Scholarship Recipient* 2026
- **National Cyber League:** *97th percentile overall across all 9 categories using tools such as Wireshark and Nmap* 2025