

# ALEXANDER HAN

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Website: [alexhan1237.github.io](https://alexhan1237.github.io) | Robotics: [ftctraininghub.com](https://ftctraininghub.com) | Code: [github.com/alexhan1237](https://github.com/alexhan1237)

Dedicated and compassionate high school senior with a strong work ethic, eager to contribute to and grow within a supportive and challenging academic environment. Passionate about community service, healthcare, and helping others. Resourceful with excellent analytical skills and a demonstrated commitment to learning. Strong organizational and time-management abilities with proven success in balancing curriculums, research projects, robotics, and varsity rowing events. Well-rounded and committed to continuing academic pursuits at a collegiate level.

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## EDUCATION

**Class 2025 Senior | Acton-Boxborough Regional High School**

*August 2021 — Present*

- Honor Rolls: 2021 – 2024
  - Coursework: 3 APs in Junior year, scored all 5 in AP tests, 6 APs in senior year
  - Unweighted GPA: 3.93, Weighted GPA: 4.5
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## COMMUNITY SERVICE

**Volunteer Camp Counselor | Summer Day Program | Acton-Boxborough Community Education, MA**

*2022 – 2023*

- Camp Counselor Trainee: 2 weeks, June – July 2022
- Volunteer Camp Counselor: 1 week fulltime, August 2022
- Volunteer Camp Counselor: 6 weeks fulltime, June – August 2023

**Volunteer Teaching Assistant | Youth Courses | Acton-Boxborough Community Education, MA**

*Summer 2024*

Working under the supervision of an instructor to help students and teachers with various tasks, such as student support, classroom preparation, and student supervision.

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## EXTRA-CURRICULAR ACTIVITIES

**CTY Advanced-Level Math | Johns Hopkins Center for Talented Youth**

*January 2020 – Present*

Attended three 6-week long on-line courses during the pandemic years and completed two 3-week long fulltime on-campus summer programs in 2022 and 2023.

### **Student Researcher | AI-aided Medical Diagnostics**

*January 2024 – Present*

Conducted self-directed research to explore effective ways to utilize AI tools such as ChatGPT or GPT4o for accelerated medical diagnostics. Quantitative measurements of the contributing parameters are collected and analyzed. I documented my findings in a 21-page, double-spaced paper titled “A Study of Effective Information for AI-Aided Medical Diagnostics” (<https://alexhan1237.github.io/resources/paper.pdf>) during the summer of 2024.

### **Robotics Team Member | FIRST Tech Challenge (FTC) Robotics Competition**

*Summer 2023 – Present*

- FTC Team #16091 – Techno Maniacs
- 2024 FTC New England Invitation Championship
- Design, Assemble, Code, Test, and Document the Team Robot
- Created an FTC robotics training website for newcomers – <https://www.ftctraininghub.com>

### **Rowing Crew Member | Novice/HS Junior Varsity/HS Varsity**

*September 2022 – Present*

- New Hampshire Championships, Boys 1st Novice 4+, Gold Medal
- Massachusetts Public School Rowing Association Fall Championship, Boys 1st Novice 4+, Gold Medal

### **Hockey Player | Acton Town/Middle School/HS Junior Varsity**

*2013 – 2021*

Growing up playing since age 6, ice hockey was a huge part of my life until I got consecutive major injuries in my junior varsity year.

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## **WORK EXPERIENCE**

### **U.S. Soccer Grassroots Referee | US Officials, MA**

*August 2021 – Present*

USSF certified. Associated with the Massachusetts State Referee Committee (MSRC) since 2021.

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## **AWARDS AND HONORS**

- Gold President’s Volunteer Service Award (2022 – 2024)
  - Member of the National Honor Society
  - Qualified for the National Merit Scholarship
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## **REFERENCE**

References available upon request