# ALEXANDER HAN

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**Website: alexhan1237.github.io | Robotics: ftctraininghub.com | Code: 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.

## 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

## 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.

## 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*

Created an individual-paced research program. Conducted research to explore the 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. The result shows that medical symptoms and medical history are the most influential parameters; medical tests are must-have for certain diseases diagnose; but medicine history might not be a significant contributor.

**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

**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 play hockey since age 6, it was a huge part of my life until I got consecutive major injuries in my junior varsity year.

## 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.

## AWARDS AND HONORS

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

## REFERENCE

**References available upon request**