

# Adam Mohiuddin

Email: [adammo06@gmail.com](mailto:adammo06@gmail.com) | Phone: 650-942-1186 | GitHub: <https://github.com/adam8687> |

GitLab: <https://eisd-robotics.eanesisd.net/am91588>

## Education

### **Westlake High School, Austin, TX (August 2021 - expected May 2025)**

- GPA: 3.8/4.0 & 5.7/6.0
- Languages known: English, Spanish
- Relevant AP Coursework:
  - AP Computer Science, AP Calculus AB, and AP Physics 1, Chemistry, Biology
- Technical Skills:
  - Python (Intermediate), Java (Proficient), C++ (Intermediate), Swift/Xcode (Intermediate), LabVIEW (Intermediate), Microsoft Office (Proficient)

## Extracurricular Activities

- **Westlake Robotics Team (August 2021 - present, 8 hours/week)**
  - Collaborating with a team of programmers, designers, electricians, manufacturers, and strategists in a dynamic, fast-paced environment
  - Lead role in conceptualizing, developing, prototyping, and integrating LED signal system
  - Utilized tools such as **LabVIEW** and **Python** to develop and implement teleoperated and autonomous functionality
  - Advanced use of advanced technologies such as **LimeLight vision** and **OpenMV**
  - Mentoring and assisting newer team members in learning robotics fundamentals, fostering a collaborative and inclusive team culture focused on continuous learning and improvement
    - 1x World Championship Division Semifinalist
    - 1x District Championship Winner
    - 1x District Championship Finalist
    - 2x Engineering Inspiration Award
    - 2x District Event Winner
- **Business INCubator (August 2023 - present, 4 hours/week)**
  - Chief Technology Officer of [EcoCents](#): product aiming to eliminate plastic littering in public areas by incentivizing recycling with prospect of earning local store discounts
  - Conceptualized “reverse vending machine” with [app](#) companion that rewards users with “points” for every item they recycle
  - Currently working to give partners reputational benefit
    - Discussions with Eanes ISD, Simon Malls, Q2 Stadium
  - Explored and utilized innovative tools such as "*Glide*" to create visually appealing interfaces for the EcoCents beta app
  - Integrated barcode scanner technology within app to track recycled bottles, ensuring accuracy and efficiency in the recycling process
  - Deployed app with makeshift EcoCents bins to analyze customer behavior and collect feedback
  - Increased engagement through gamification elements such as a “Leaderboard” and by offering higher rewards to top recyclers
- **Personal Project: ScholarSync (January 2023 - present, 4 hours/week)**
  - Recognized struggles finding desired scholarships for people of color and various socioeconomic backgrounds on consistent sites

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- Conceptualized a platform that housed information on all types of scholarships under one roof
- Began by researching problems with big scholarship platforms such as Fastweb, Scholarships.com, and Scholarships360 to identify pain-points
  - Implemented web scraping to extract information from various public resources
- Evaluated different technologies for web scraping and backend development, including **SwiftSoup** for parsing HTML data and **CloudKit** for managing app data in the cloud
- Promotes social media to ScholarSync, highlighting its features, ease of use and functionality.
- **Computer Science club (October 2022 - present, 1 hour/week)**
  - Participating in discussions about recent developments in artificial intelligence and machine learning
  - Collaborating with fellow members on coding projects and problems to explore practical applications of computer science concepts.
- **Mu Alpha Theta - National Math Honor Society (August 2023 - present, 1 hour/week)**
  - Honor Society composed of students who have demonstrated proficiency in advanced mathematics at WestlakeHigh School
- **Red Cross club (October 2022 - May 2023, 2 hours/week)**
  - Distributed essential COVID-19 items to patients in need, such as masks and medication
  - Participated in fundraising events and campaigns to support Red Cross initiatives and humanitarian relief efforts
  - Raised awareness about public health and safety measures through school and social media
  - Helped organize blood drives, food bank donations, books and shoe drives.
- **University of Texas at Austin - High School Research Academy (June - July 2024, 20 hours/week)**
  - In progress
- **University of Texas at Austin - Machine Learning Academy (July 2024, 84 hours)**
  - In progress

## Work and Volunteer Experience

- **University of Texas at Austin - Generative Artificial Intelligence Club (Feb 2024 - present, 2 hours/week)**
  - Researching and planning for Large Language Models Reading using semantic inference and social network analysis
  - Applying key data science studies and analyzing it in different technologies using artificial intelligence.
  - Preparing scholarly communication and reading of various technological applications using images, graphs, charts and plots
  - Planning on creating health risk prediction and disease progression models.
- **FIRST Access (October - December 2023, 4 hours/week)**
  - Co-led program that enables students with cognitive disabilities to engage in STEM/Robotics activities
  - Mentored students in STEAM fundamentals to conceptualize their abstract thoughts into creative ideas, innovation and advanced problem solving

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- Actively engaged in organizing and facilitating robotics activities and workshops tailored to meet the unique needs and abilities of participating students
- Provided a platform for inclusivity and empowerment through robotics, science and technology fostering a sense of achievement and recognition.
- **FIRST Lego League for elementary students (January - October 2023, 2 hours/week)**
  - Coached students competing in FIRST Lego League, teaching fundamentals in Lego robot programming and game strategy
  - Instilled competitive spirit and inspired young engineers to tackle complex challenges
  - Mentored students to design, assemble, build and program each EV3 kit using its programmable computer brick, sensors, motors and cables
- **Intern - Amazon Web Services (June - August 2022)**
  - Effectively worked with teams to work on AI/ML projects
  - Prepared Data using MS Excel, MS Word and other applications to organize, sort and store key data files.
  - Wrote code in Python that prepared Data flow and integration.
  - Performed Quality Assurance Tests to check test end results and helped in planning performance test plans.

## References

**Erik Qualman** (Bestselling Author, Motivational Speaker, Professor at Northwestern University)

Email: [equalman@equalman.com](mailto:equalman@equalman.com)

Phone: 404-808-4561

**Mr. Jeffrey Nixon** (Business INCubator Teacher)

Email: [jnixon@eanesisd.net](mailto:jnixon@eanesisd.net)

Phone: 512-626-1240

**Mr. Lynden Rosier** (Computer Science Teacher)

Email: [lrosier@eanesisd.net](mailto:lrosier@eanesisd.net)

Phone: 512-732-9280