

ADITYA MEENAKSHISUNDARAM

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EDUCATION

Seven Lakes High School

August 2020 - May 2024

SAT: 1560

Honor Societies and Clubs: National Honor Society, National Science Honor Society, National Spanish Honor Society, Mu Alpha Theta, National English Honor Society, Model United Nations, Junior State of America

Texas A&M University - Honors in Chemical Engineering with Business Minor

August 2024 - May 2028

Activities: TAMU AiChe, TAMU VEERA, Stem to Stocks Club, Craig and Galen Brown Engineering Honors Program

EXTRACURRICULAR ACTIVITY

Chemical Engineering Researcher

January 2025 - Present

Working in Dr. Holtzapple's Chemical Engineering laboratory, with work centered around the Mixelco process - converting biomass into energy using mixed cultures of yeast organisms.

University of Houston Biomedical Engineering Lab Assistant

June 2023 - July 2023

Researched Genome Engineering alongside biomedical engineering professors at the University of Houston

-Worked and developed skills with CRISPR-Cas9 technology and ZFN.

Unite and Inspire Richmond Health Assessment Internship

June 2023 - August 2023

Researched evidence-based mental health tools to create safe spaces for youth in impoverished areas of Richmond, collaborating with Access Health Clinic

- Developed 15+ educational videos on mental health importance and conducted seminars on combating mental health stigmas

Memorial Hermann Volunteering Internship

July 2023 - August 2023

Intern - assisted nurses in patient care and hospitality, patient interactions, and clerical support on the 6 West floor (PreOp/PostOP). Completed patient rounds assuring all patients' needs were met. Volunteered 33 hours

Seven Lakes Varsity Swimming and Diving

August 2020 - May 2024

Member (2020-2023) and Vice Captain (2023-Present) of the UIL competition team, fostering discipline, character, and sportsmanship while competing at the highest level.

- A Regional Qualifier for the 100 Breaststroke, Vice Captain during Senior Year, 200 Individual Medley District Champion 2022, 100 Breaststroke District Champion 2022/2023, TISCA Academic All-State first team, NISCA Academic All-American First Team

SEWA International

June 2022 - August 2022

Volunteered 108 hours in underprivileged Houston communities, creating safe spaces and educational activities for children; won Presidential National Service Award (Bronze)

- Taught emotional intelligence and critical thinking to 36 children; organized 10+ food and medicine drives for underserved communities

Model United Nations

August 2022 - May 2024

Debated real-world topics in Model UN conferences, developing public speaking and diplomatic skills

- Collaborated with delegates from various schools to reach compromises on issues such as menstrual healthcare and journalist rights
- Honorable mention at TWHSMUN(UNHCR), CTMUN(Crisis), HAMUN(WHO), RiceMUN(SPECPOL)

WORK EXPERIENCE

Shoshin Labs

May 2020 - Present

Tutored 30+ students in STEM, languages, and AP courses; created a GitHub repository with 10+ projects for lesson planning.

Developed and implemented curriculum for subjects including Python, AWS, math, and sciences; worked 10 hours weekly

Emler Swim School

January 2024 - June 2024

Certified Swim Instructor and Team Coach: Taught swimming and coached team for competitive success

- Acquired swim instructor certification, Swim Team Coach Certification, CSR Certified

AWARDS AND CERTIFICATIONS

Engineering Thermodynamics

January 2025

AWS Certified Cloud Practitioner

March 2022

Red Cross Certified Lifeguard

March 2024

Biomedical Nanodevices

July 2024

Biomaterials within Biomedical Engineering

July 2024

Basics of AI-based Python

August 2024

SKILLS

Languages - English, Spanish, Tamil ----- Programming Languages - Python, Javascript, HTML

