

VIHAAN SHAH

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EDUCATION

Northwestern University, Evanston, IL

June 2026

Bachelor of Science, intended Major in Computer Science: Minor in Entrepreneurship: **CGPA 3.74/4.0 | Major GPA 3.94/4.0**

Relevant Coursework: Data Structures & Algorithms, Scalable Software Architecture, Introduction to Artificial Intelligence, Computer Networking, Introduction to Computer Systems, Static Systems, Dynamic Systems, Linear Algebra, Multivariable Calculus, Design Thinking & Communication

Awards: Dean's List Award (Honors Certificate for outstanding academic achievement – 2 quarters)

Aditya Birla World Academy, Mumbai, India

August 2022

Awards: A* in Math, Physics, Chemistry, English | ACT: 36/36 | Research on stars likely to form Black Holes and their effects

Hong Kong International Math Olympiad – Gold Medal | Thailand International Math Olympiad – Silver Medal

Activities: Completed all 8 Grades of Speech & Drama, Communication Skills and Performance Arts from Trinity College London

LEADERSHIP & ADDITIONAL ACTIVITIES

Electronics Team Lead

January 2023 – April 2023

American Society of Mechanical Engineers, *Evanston, Illinois*

- Awarded runner's up among the Big Ten schools at the ASME EFX Innovative Additive Manufacturing 3D Challenge.
- Leveraged Solidworks CAD, Arduino, and Prusa MK3S+ and Ender 3 V2 printers to build a hovercraft, remotely controlled by a joystick, capable of navigating a maze and delivering a payload.
- Planned and implemented wiring schematics, orchestrated hovercraft's programming and established remote connection between the hovercraft and joystick, streamlined strategizing and technical discussions

Head of Programming - FIRST Robotics Competition

July 2020 – April 2021

Aditya Birla World Academy, *Mumbai, India*

- Designed a robot to collect and shoot balls at a desired target, requiring capabilities in tele-operated and autonomous navigation
- Spearheaded my team's programming division and was responsible for coding and electronics of the robot, and logistics such as team meetings and strategy discussions.
- Awarded runner's up in Qualcomm Innovation Challenge for designing an app enhancing senior's healthcare and community.
- Organized workshops for young students and underprivileged children to encourage them to pursue STEM by stimulating their interest in robotics and guiding them to establish a team to participate in the FIRST Tech Challenge.

Campaign Organizer

October 2018 – November 2018

Fuel a Dream, *Bangalore, India*

- Conducted a crowdfunding campaign wherein I raised ₹76,000, surpassing the goal of ₹20,000, from 32 different funders for providing 8 handicapped villagers with prosthetic limbs to assist with walking.

RELEVANT EXPERIENCE

Software Engineering Intern

June 2023 – August 2023

Accenture, *Mumbai, India*

- Employed on a project consulting for Hindustan Unilever to increase their productivity and boost profitability.
- Leveraged Generative AI to design an AI buddy chatbot that would provide operators with essential information about machinery, access past data, perform calculations and analysis on it, and make recommendations to prevent potential issues.

Robotics and Automation Intern

July 2021 – August 2021

Precision Automation and Robotics India Ltd., *Pune, India*

- Explored robotics and automation technologies to manufacture automated solutions for numerous industries.
- Gained an insight into their business model, engaged with their R&D facility, developed skills in machine design using CAD and assisted with assembling and testing robotic arms on the shop floor.

Research Assistant

April 2021 – June 2021

Indian Institute of Technology (IIT Bombay), *Mumbai, India*

- Collaborated with Gangotree energy at the IIT Bombay campus to research sustainable and economically viable methods of converting waste to energy.
- Formulated a waste to energy conversion method that could use campus waste to produce energy to power the entire campus.
- Estimated cost of the proposed technology would be recovered through savings within the first two years itself.

SKILLS & INTERESTS

Computer Languages: Proficient in Python, C, C++, C#, Java, Assembly, SQL, MATLAB, HTML, CSS, JavaScript, Racket, Arduino

Technical Skills: Software Engineering, AWS, Robotics, Web Development, Angular, Full-stack, MS Office, Azure, OpenAI

Additional Interests: Robotics, Rifle Shooting (National Level champion), Chess, Travel, Sports