

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, Introduction to Artificial Intelligence, Introduction to Computer Systems, Fundamentals of Computer Programming, Static Systems, Dynamic Systems, Linear Algebra, Multivariable Differential 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 | 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

FIRST Robotics Competition, Houston, Texas

July 2020 – April 2021

Head of Programming

- Designed a robot capable of tele-operated and autonomous navigation and intake and shooting of balls at the desired target.
- Headed my team's programming division and was responsible for coding and electronics of the robot. I oversaw team meetings and strategy discussions.
- Achieved runner's up in the Qualcomm Innovation Challenge.
- 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.

American Society of Mechanical Engineers, Evanston, Illinois

January 2023 – April 2023

Electronics team lead

- Developed a hovercraft using 3D printed parts, remotely controlled with a joystick, to navigate through a maze, lift a payload and drop it to the destination, for the ASME EFX Innovative Additive Manufacturing 3D Challenge.
- Directed the electronics team through the wiring and programming of every aspect of the hovercraft as well as the remote communication to control it during the competition.

Fuel a Dream, Bangalore, India

October 2018 – November 2018

Campaign Organizer

- Conducted a crowdfunding campaign to raise funds to provide prosthetic limbs to handicapped villagers to improve their ability to walk, thus enhancing their day to day life.
- Collected ₹76,000 from 32 different funders, surpassing the goal of ₹20,000, providing 8 villagers with prosthetic limbs.

RELEVANT EXPERIENCE

Precision Automation and Robotics India Ltd., Pune, India

July 2021 – August 2021

Intern

- Used 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.

JBM Auto Ltd, Mumbai, India

May 2021 – June 2021

Intern

- Worked on a project related to electric buses. I got an insight into automotive engineering, understood the potential of electric vehicles and enhanced my skills of gauging market size and understanding government incentives.

Indian Institute of Technology, Mumbai, India

April 2021 – June 2021

Research Assistant

- 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. The 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++, Java, SQL, MATLAB, HTML, CSS, JavaScript, Racket

Technical Interests: Software Engineering, Robotics, Quant, Cybersecurity

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