

# VIHAAN SHAH

Evanston, Illinois • +1 (708) 971-6452 • vihaanshah2026@u.northwestern.edu  
[linkedin.com/in/shah-vihaan/](https://www.linkedin.com/in/shah-vihaan/) • [github.com/VihaanShah26](https://github.com/VihaanShah26) • [vihaanshah.co.in](mailto:vihaanshah.co.in)

## EDUCATION

**Northwestern University**, Evanston, IL

**Expected June 2025**

*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