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 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.

American Society of Mechanical Engineers, Evanston, Illinois   **January 2023 – April 2023**
Electronics team lead
- 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.
- Directed the electronics team through each aspect of the hovercraft's wiring, programming and remote communication.

Fuel a Dream, Bangalore, India   **October 2018 – November 2018**
Campaign Organizer
- Conducted a crowdfunding campaign for providing handicapped villagers with prosthetic limbs to help them walk.
- Collected ₹76,000 from 32 different funders, surpassing the goal of ₹20,000, providing 8 villagers with prosthetic limbs.

RELEVANT EXPERIENCE

Accenture, Mumbai, India   **June 2023 – August 2023**
Software Engineering Intern
- Worked 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.

Precision Automation and Robotics India Ltd., Pune, India   **July 2021 – August 2021**
Robotics and Automation 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.

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, Arduino
Technical Skills & Interests: Software Engineering, Robotics, Fintech, Cybersecurity, Web Development, Full-stack development
Additional Interests: Rifle Shooting (National Level champion), Chess, Travel, Sports