VIHAAN SHAH

Evanston, Illinois • (708) 971-6452 • vihaanshah2026@u.northwestern.edu

linkedin.com/in/shah-vihaan/ • github.com/VihaanShah26 • vihaanshah.co.in

EDUCATION

Northwestern University, *Evanston, IL*   **June 2026**
Bachelor of Science, Major in Computer Science and second *Major in Data Science:*   **CGPA 3.8/4.0 | Major GPA 3.96/4.0**
Relevant Coursework: Data Structures & Algorithms, Scalable Software Architecture, Computer Networking, Computer Systems, Computer System Security, Artificial Intelligence, Machine Learning, Programming Languages, Design Thinking & Communication
Awards: Dean's List Award (3 quarters) , High Honors (4.0 GPA)

Aditya Birla World Academy, *Mumbai, India*   **August 2022**
Awards: A* in Math, Physics, Chemistry, English | ACT: 36/36 | Distinction in Communication Skills from Trinity College London

RELEVANT EXPERIENCE

Accenture Solutions Pvt. Ltd.   **June 2023 – August 2023**
Software Engineering Intern   *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.

Precision Automation and Robotics India Ltd.   **July 2021 – August 2021**
Robotics and Automation Intern   *Pune, India*
- Explored robotics and automation technologies to manufacture automated solutions for numerous industries.
- Developed skills in machine design using CAD, assisted with assembling robotic arms on the shop floor and engaged in R&D.

FoodFight Inc.   **November 2023 – Present**
Software Engineering Intern   *Chicago, Illinois*
- Developed an app to facilitate sports betting using food instead of money to prevent/solve problems regarding addiction to betting.
- Generated outcomes and facilitated bet tracking for all Football, Soccer and Basketball games on a daily basis using an API.
- Implemented a Scalable Architecture by storing information in AWS RDS and interacting with the database using SQLAlchemy

INDIVIDUAL PROJECTS

Sports Analysis Software   **April 2023 – May 2023**
- Designed a software to perform statistical algorithmic calculations to determine the outcome of an encounter between any two teams for any given sport. The user interacts with the software via voice and results are based on an aggregation of past data.
- Enhanced skills in AI, using the OpenAI API, NLP, building models on top of LLMs, and designing statistical frameworks

Navigating Open Street Maps   **January 2023 – February 2023**
- Software to load Open Street Maps as graphs and utilize Dijkstra's algorithm to find the shortest route between any two locations.
- Gained experience in parsing maps, working with graphs, using shortest path algorithms and large-scale programming in C/C++.

LEADERSHIP & ADDITIONAL ACTIVITIES

Electronics Team Lead - Innovative Additive Manufacturing 3D Challenge   **January 2023 – Present**
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

Project Manager   **December 2023 – Present**
Northwestern University Develop + Innovate for Social Change (client: MetaFrazo)   *Evanston, Illinois*
- Optimizing and improving AWS and database management to track videos uploaded and downloaded from a webapp for a startup.

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
- Awarded runner's up in Qualcomm Innovation Challenge for designing an app enhancing senior's healthcare and community.
- Spearheaded programming and electronics and organized workshops for underprivileged students 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.

SKILLS & INTERESTS

Computer Languages: Proficient in Python, C, C++, C#, Java, Assembly, SQL, MATLAB, HTML,CSS, JavaScript, Racket, Arduino
Technical Skills: SWE, AWS, Kubernetes, Docker, Azure, OpenAI API, Full-Stack, Web Dev, React, Node.js, Express.js, MS Office
Memberships: IEEE, Responsible AI Student Organization, KTP Pre-Professional Technological Fraternity, EPIC (Committee Head)