

Niraj Shah

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EDUCATION

Northwestern University, Evanston, IL

Graduating 2023

Bachelor of Science in **Computer Science** with a **Kellogg Certificate in Managerial Analytics**

Cumulative GPA: 3.7/4.0 | Murphy Scholar- awarded to top 5% of incoming engineering class

Relevant Courses: Design Thinking, Fundamentals of CS II, Human Computer Interaction, Engineering Analysis

Interests: Robotics, Mechanical Engineering, Physics, Economics, Languages

SKILLS

Languages: Python, C++, Swift, C, HTML, CSS, JavaScript, Racket, MATLAB

Languages (Spoken): Spanish (fluent), Hindi (fluent), French (Conversational), Gujarati (Conversational)

Technical: App Development, TIG Welding, Mill & Lathe and General Shop Equipment, Solidworks (CAD)

PROJECT AND LEADERSHIP EXPERIENCE

Northwestern University Formula Racing, Northwestern University, *Chassis Team*

09/2019 – 08/2020

- Contributed to designing the frame, building and setting up jigs and welding the frame of the formula racing car for the annual Formula SAE competition in Michigan.

Design Thinking and Communication Course, Northwestern University

09/2019-12/2019

Client: Shirley Ryan AbilityLab, Chicago, IL

- Designed and led the building of a prototype to help disabled patients get in and out of recumbent trikes independently that won the design award for the class.

Facial Recognition Safe, Mumbai, India

08/2020

- Created a facial recognition software in Python that works with 90% confidence given 3-5 images.
- Built a makeshift safe and used a Raspberry Pi and an Arduino to implement a safe that unlocks on facial recognition and locks when the safe door closes.

Northwestern Robotics Club, Northwestern University

09/2020 - Present

- Helped with the transition to a virtual club due to the pandemic.

Social Media Goal Tracking App

08/2020 - Present

- Learnt Swift to create a social media style incentive-based goal tracking app. Conducted market research, and began the initial development stage of the app.

Varsity Basketball and Soccer Captain, Mumbai, India

08/2018-05/2019

- Played varsity basketball and soccer all 4 years of high school, captaining both teams during my senior year.
- Two-time soccer MVP, one-time athlete of the year and winner of the South Asian International School basketball championship in my senior year.

WORK EXPERIENCE

Engineering and Design Center Northwestern (*Machine Shop Trainer*), Evanston, IL

03/2020- Present

- Conducted virtual reviews of at-home CAD options for the virtual spring quarter.

Xenah Developers, (*Co-Founder*), Evanston, IL

07/2020- Present

- Started a company that helps provides app and website building services for Northwestern students and start-ups.

Nanhi Kali/Naandi foundation (*Project Leader*), Mumbai, India

Summers of 2016-2018

- Created a financial literacy module and coded a basic financial decision-making game in order to empower underprivileged women in India.
- Led a 'teach the teacher' session that presented the module to the heads of each center and taught them how to teach the module to their students. The test results indicated an average of 12% increase in knowledge for the students.

Padeco (*Intern*), Mumbai, India

Summer 2018

- Researched electric vehicle charging ports with emphasis on CHAdeMo.
- Read and annotated proposals that consulting companies receive from clients.

Mahindra SUSTEN (*Intern*), Mumbai, India

Summer 2018

- Worked with the solar power division of Mahindra to understand the solar energy industry and see how the internet of things is revolutionizing the industry and write a paper on optimization of solar panels.

RESEARCH EXPERIENCE

Universal Quantum Computers, New Haven, CT

Summer 2018

- Worked with graduate student mentors from the Yale Young Global Scholars program to write a research paper on universal quantum computers, its potential and its challenges.