

SNEHA SHAKYA

sneha.shakya@tufts.edu | (401) 536-8793 | linkedin.com/in/snehashakya
github.com/snehashakya | snehashakya.wixsite.com/en1portfolio

EDUCATION

Tufts University School of Engineering, Medford, MA

Bachelor of Science in Computer Engineering

Expected Graduation: May 2024

GPA 3.93, Deans List; Leslie & Bruce Male Tufts University Scholar

Relevant courses: Data Structures; Intro to Security; Embedded Systems; Geospatial Information Technology Training; Intro to Circuits & Electronics; Intro to Digital Electronics; Intro to Robotics; Intro to User Experience

The British School, Kathmandu, Nepal

A-Level High School Diploma; A* in Computer Science, Mathematics, & Physics

August 2020

Deputy Head Girl & fundraising team lead for refurbishing 2015 Nepal Earthquake affected schools

Women's Rights Ambassador & Co-Founder of Young Zonta International Club for empowering women

Awards: Top in School, UK Math Challenge 2019; Musician of the Year 2018; UK Sports Leadership 2017

EXPERIENCE

Tufts University Center for Engineering Education and Outreach

LEGO Foundation Education Teaching Assistant

April 2021 – Present

- Lead LEGO SPIKE Prime Robotics workshops to Grade 6 students in Little Singer School, Navajo Nation.
- Mentor students for Block & Python coding, designing robot models & methods to collect scientific results.
- Design lesson plans to build interactive robots for different purposes using sensors.

Research & Development Assistant

January 2021 – June 2021

- Developed color tracking & face recognition additions to 'SPIKE Prime Backpacks' using OpenMV Cam for the LEGO Education SPIKE Prime. Uploaded project details on GitHub for user engagement & replication.

Tufts Women in Computer Science Club (WiCS)

Executive Board Member: Logistics Chair, Underclassmen Representative

January 2021 – Present

- Lead & organize speed networking event for underclassmen with successful turnout.
- Facilitate monthly women in STEM discussion panels; administer budgets & manage disbursements.
- Design & maintain WiCS club website; post alerts in WiCS's social media advertising club events.

PROJECTS

Quantum Tetris, Massachusetts Institute of Technology iQuHACK Quantum Computing Hackathon

Team Member

January 2022

Received 'Creativity Hack' Award for creating game inspired by Tetris that teaches basics quantum concepts.

Dino in the Sky Game, Intro to Digital Electronics Final Project, Tufts University

Team Member

December 2021

Developed game inspired by Google's Dinosaur Game using FPGA & VGA Monitor as a team of 4.

Iron Sweat Patch, The Junior Academy, New York Academy of Sciences, NY

Team Lead

June 2017 – July 2017

Mobilized international students & STEM experts online to prototype sweat patch measuring iron excretion.

EXTRA CURRICULARS

Member of clubs

August 2020 – December 2021

Tufts Robotics Club: Actively participated in expert talks & lessons on how to use Arduino.

Tufts Electric Racing Club: Involved in steering wheel team & enhanced knowledge on car chassis design.

Tufts Students for Exploration & Development of Space Club: Engaged in expert talks & rocketry seminar.

SKILLS & INTERESTS

Programming Languages: C/C++, Visual Basic, Python, NI LabVIEW, VHDL

Software/tools: GIT, Adobe (Photoshop, Illustrator, InDesign), CAD, 3D printing, laser cutting, soldering

Languages: Nepalese, English, French

Personal Interests: Piano, ukulele, vocal performance, traveling, Formula 1, adventure sports, volleyball