# Shivam Gupta

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## EDUCATION
**The Ohio State University**
Honors B.S. Computer Science and Engineering | Minor in Business      **GPA: 4.0** *May 2026*
**Niskayuna High School**     Niskayuna, NY      **GPA: 4.5** *May 2022*
- Awarded Academic Excellence, National Honors Society, Graduated with Honors

## SKILLS
- Coding Languages: Java, Python, HTML, Swift, C/C++, x86-64 Assembly, ROBOTC, MATLAB, ReactJS.
- Relevant Coursework: **Software Development (TA for Software II)**, Operating Systems, Computer Organization, Digital Logic, Data Structures and Algorithms.
- Software: CAD, Visual Studio Code, Eclipse, Linux, Unix, Excel, Canva, Git, Microcontroller Software (Proteus Simulator).

## SOFTWARE PROJECTS
**Honors Fundamentals of Engineering II ROBOT**      *January 2023 – May 2023*
- Developed an autonomous navigation robot for an engineering competition. The robot navigated a professor-built obstacle course, and performed complex tasks such as reading color, flipping levers, rotating objects, and pushing buttons.
- Programmed the robot using C++ through Visual Studio Code, and then transferred code to a microcontroller on the robot.

**AdviseMe App**      *January 2023 – March 2023*
- Helped develop an app using ReactJS that advises students in competitive majors such as computer science on the courses they should take in their study progression to graduate as intended.
- Inspired by the current lack of advising help within the computer science department due to advisors leaving the college.

**Marble Sorter**      *March 2022 – June 2022*
- Learned and utilized the programming language ROBOTC to perform operations on a robot in a PLTW course.
- Constructed a robot using CAD and programmed it to be able to sort marbles by color, size, and weight.
- Directed a team and gained important knowledge of how to collaborate with other engineers on a project.

**Blackjack**      *December 2019 – January 2020*
- Programmed the common casino game of blackjack using Java in the Eclipse IDE.
- Utilized the principles of computational probability to develop more efficient algorithms.

## WORK EXPERIENCE
**Teaching Assistant (Software II)**      *August 2023 - Present*
- Assisting professors such as Paolo Bucci and Rob LaTour instruct the class and teach challenging concepts.
- Training 40 students regularly throughout the week on how to improve their skills as a thinker and software developer.
- Facilitating the grading of projects and homework, while also holding review sessions through my office hours.

**Residential Advisor**      *August 2023 - Present*
- Proactively advise and oversee 75 students living on my floor and provide the resources they need to succeed at OSU.
- Collaborate with a team of 17 Resident Advisors to ensure the safety of the building, and plan events for community building.

**Behavior Anomaly Detection Researcher**      *May 2022 – August 2023*
- Conducted research under Professor Alper Yilmaz that used AI facial and joint tracking software.
- Data from facial recognition was used to analyze possibilities that someone could be suffering with an ischemic stroke.

## LEADERSHIP & INVOLVEMENT
**Ohio State Buckeyethon:** *Team Leader*      *September 2022 – Present*
- Helped raise over $600,000 in funding for Nationwide Children's Hospital hematology and oncology unit for kids with cancer.
- Campaigning for funds all year-round from 2022-2026.

**Engineering House Learning Community:** *Residential Advisor (Archer/Torres House)*      *August 2022 – Present*
- Operate as an RA for an on-campus engineering community.
- Promote the well-being of 5th floor residents, plan building-wide events, perform rounds to ensure safety of the building.

**OSU DALT Residential Community Council:** *Diversity Equity and Inclusion Chair*      *August 2022 – May 2023*
- Attended council events and completed workshops on leadership skills to enhance skills as a council member.
- Initiated the process of planning events and outings for my residential community on campus.

## HONORS & AWARDS
**RIT Computing Medal** - Awarded by the Rochester Institute of Technology to students excelling in the field of computer science.