

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, CSS, MATLAB, React.js, Ruby, SQL.
- Relevant Coursework: **Software Development (TA for Software II)**, Operating Systems, Computer Organization, Digital Logic, Data Structures and Algorithms, App Development, AI & Machine Learning
- Software: WSL, Oracle VM, Visual Studio Code, Linux, Unix, Azure, AWS, Docker, Git/GitHub, Microcontroller Software.

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 on a team of 4 engineers using CAD and programmed it to be able to sort marbles by 5 different parameters.

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

Software Engineer Intern: Iris Finance

July 2024 - Present

- Validated and optimized the Bing Ads Airbyte connector, integrating ad performance data into ELT pipelines.
- Leveraged Airbyte's Low-code SDK to build with Python and optimize key source connectors, streamlining API data flows and boosting data sync efficiency by 30%.

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 testing of 10 different software projects per semester and holding review sessions through office hours.

Behavior Anomaly Detection Researcher

May 2023 – August 2023

- Conducted research under Professor Alper Yilmaz that coupled Python with AI facial and joint tracking software.
- Data from facial recognition allowed analysis of possibilities that someone could be suffering with an ischemic stroke.

LEADERSHIP & INVOLVEMENT

Ohio State Buckeyethon: Team Captain

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 living community.
- Promote the well-being of 75 engineering students, plan building-wide events, perform rounds to ensure a safe building.

OSU DALT Residential Community Council: Diversity Equity and Inclusion Chair

August 2022 – May 2023

- Developed a plan alongside a team of 8 council members to manage the \$12,000 in building funds.
- Initiated the process of planning 5 monthly 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.