

# Hridiza Roy

Third Year Computer Science Student

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## Education

**Rochester Institute of Technology (RIT)**, Rochester, New York

Bachelor of Science (BS) in Computer Science, *Aug 2021 – Dec 2025 (Expected)*

Bachelor of Science (BS) in Applied Arts and Sciences, *Aug 2021 – Dec 2025 (Expected)*

Concentrations: **Computer Graphics, Physics, Digital Film Production**

**GPA: 3.53/4.0** | Honors Student | Dean's List

## Skills

**Programming:** C++, C, Qt, Python, JavaScript, Java, Node.js, CSS, ThreeJS, WebGL, OpenGL

**Other Tools:** Maya, Adobe Premiere Pro, After Effects, Blender, Illustrator

**Other Skills:** 3D Geometry, Linear Algebra, Linux

## Work Experience

**Software Engineer Co-op** | *Ocean Insight* | Rochester, New York

May 2023 – Present

- Ported the software for the Spirit Sampler device from C# to **C++** and **Qt**
- Developed a GUI and backend using **PySide** and **C++** for testing components of the Speed Sorter System
- Fixed a bug in FTDI's libMPSSSE library for communicating from a windows system to an embedded device via I2C
- Developed a software using **PySide** to automate report generation for Speed Sorter data

**Physics and Math Tutor** | *RIT, Academic Success Center* | Rochester, New York

Jan 2023 – April 2023

**Communications Consultant** | *RIT, Expressive Communication Center* | Rochester, New York

Aug 2022 – April 2023

- Coached people in communication-related skills such as writing and delivering speeches and presentations
- Specialized in helping people write technical speeches for a non-technical audience

**Teaching Assistant** | *RIT, Software Engineering Department* | Rochester, New York

Aug 2022 – Dec 2022

**Technical Intern** | *NextCorps* | Rochester, New York

Oct 2021 – May 2022

- Supported founders of Software Startups on their projects for Embark (Startup Incubator Program of NextCorps)
- Performed tasks including **video editing**, **graphic design**, landing page development, quality assurance, plugin and integration research, responsive design research, database design, and customer discovery interviews

## Projects

**Pancake** | [github.com/hridizaroy/pancake](https://github.com/hridizaroy/pancake)

- Worked in a team of 3 Developers to create a software using **C++** and **OpenCV** that creates 'smart presets' for images, for making an image look like an edited image instead of applying the same effects

**Virtual Lab** | [github.com/hridizaroy/virtualLab](https://github.com/hridizaroy/virtualLab) | [hridiza.com/projects/virtualLab/](https://hridiza.com/projects/virtualLab/)

- Developed a web-app simulating a 3D classroom using **HTML**, **CSS**, and **JavaScript** (No libraries/frameworks)
- Used **3D Vector Math** to implement movement, rotation, and the environment

**Vedant Jadia website**

- Developed the portfolio website for Vedant Jadia (an Indian musical artist), hosted on <https://vedantjadia.com/>
- Technologies used: **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **jQuery**

## Volunteer Experience

**Mentoring Head, Society of Software Engineers**, RIT | Rochester, New York

January 2023 - Present

- Lead a group of 24 mentors and facilitate meetings to discuss solutions for challenges, e.g., mentor-mentee ratio
- Organized bi-weekly review sessions for 100+ students for Software Engineering courses (**C++**, **C**, **Java**)

**Founder, Inter-disciplinary technology club** | New Delhi, India

November 2019 – June 2021

- Founded Ryan International School's inter-disciplinary technology club, based on collaboration among different fields including **App Development**, **Robotics**, **3D Modeling**, **Video Editing**, and **Music Production**
- Taught **C++** and **Web Development** to students in this club and managed **65+ club members**
- Organized a community service event and trained a team of 10 to give 100+ children lessons in technology

## Achievements

**Recipient, David and Melissa Egts Scholarship** | April 2023

**Winner, Explainer Video Contest**, Adobe in a Box | January 2022

**1<sup>st</sup> Place, 33<sup>rd</sup> Annual RIT Public Speaking Contest**, RIT | December 2021

**ATL Student Innovator Award Recipient**, NITI Aayog (India) | November 2019