

Hridiza Roy

Third Year Computer Science Student

(585) 754-4842 | hridizaroy@gmail.com | www.hridiza.com | youtube.com/@hridiza | linkedin.com/in/hridiza

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**
- Designed and Developed a GUI and backend using **PySide** and **C++** for testing components of the Speed Sorter
- Successfully discovered and fixed a bug in FTDI's libMPSSE library for communicating from a windows system to an embedded device via I2C

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

- 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 | 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

Freelance Website | vedantjadia.com

- Developed a **responsive** portfolio website for Vedant Jadia (musical artist) with an organized site map
- Used **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **jQuery** to comply with frontend standards

Volunteer Experience

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

January 2023 – April 2023

- 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

1st Place, 33rd Annual RIT Public Speaking Contest, RIT | December 2021

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