

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, ThreeJS, OpenGL, OpenCV, JavaScript, Java, PySide, CSS

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

Other Skills: Linux, Linear Algebra, Embedded C, Raspberry Pi, Git, Visual Studio, CMake, Conan

Work Experience

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

May 2023 – Dec 2023 (Expected)

- Discovered and fixed a bug in FTDI's libMPSSE library for communicating from a windows system to an **embedded** device via **I2C** using **C**
- Increased scalability of the Color Sensor Software by expanding it for multiple sensors using **PySide** and **C++**
- Improved maintainability and performance of the Spirit Sampler software by porting it from C# to **C++ (Qt)**

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

- 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)
- Performed tasks including **video editing**, **graphic design**, and responsive design research
- Tools used: **Adobe Premiere Pro**, **Adobe Illustrator**, Bubble.io

Projects

Pancake | github.com/hridizaroy/pancake

- Worked in a team of 3 to create a software using **C++** and **OpenCV** that creates 'smart presets' for images, for adapting a preset to an image's needs based on its properties like brightness and saturation instead of applying the same effects to every image

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 using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **jQuery**

Volunteer Experience

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

January 2023 – April 2023

- Lead a group of 24 mentors and facilitated meetings to discuss mentoring challenges
- Organized biweekly review sessions for 100+ students for Software Engineering courses (**C++**, **C**, **Java**, **Python**)

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
- Increased the number of women interested in technology in the school by 20%**
- Taught **C++** and **Web Development** to students and managed **65+ club members**

Achievements

Grace Hopper Conference Scholarship, RIT | September 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, Govt. of India | November 2019