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**
- 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 - 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
	1st Place, **33rd Annual RIT Public Speaking Contest,** RIT	December 2021
	ATL Student Innovator Award Recipient, NITI Aayog (India)	November 2019