





# Hridiza Roy

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## EDUCATION

### Rochester Institute of Technology

Bachelor of Science in Computer Science  
Bachelor of Science in Applied Arts and Sciences  
Concentrations:  
**Computer Graphics, Imaging Science,  
Digital Film Production**  
August 2021 - May 2025  
GPA: 3.53 | Honors Student

## SKILLS

### Programming

C++, Python, C, Embedded Programming, Qt,  
GLSL/OpenGL, OpenCV, OSL, Vulkan, PySide,  
JavaScript

### Misc

Linux/Unix, Git, Visual Studio, CMake, 3D  
Geometry, Linear Algebra, Shader Programming

## PROFESSIONAL EXPERIENCE

### President, RITGraph | ACM Siggraph Student Chapter

- Organize collaborative Computer Graphics projects between artists and software developers

### Founder, Inter-disciplinary tech + film club

- Increased the **number of women** in technology in the school by **over 25%**
- Taught C++ and Web Development to students and managed 65+ club members

### Mentoring Head, Society of Software Engineers | RIT

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

## AWARDS

- Grace Hopper Conference Scholarship
- David and Melissa Egts Scholarship | RIT
  - A \$2,600 scholarship awarded to 1 Undergrad Computer Science Student
- Winner, Explainer Video Contest | Adobe
- 1st Place, 33rd Annual RIT Public Speaking Contest
  - Why you should use filler words in your speeches:  
[hridiza.com/projects/fillerWords](https://hridiza.com/projects/fillerWords)
- Performing Arts Scholar (Dance) | RIT

## WORK EXPERIENCE

### Software Engineer Intern Ocean Insight

May 2023 - December 2023  
Rochester, NY

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

### Physics and Math Tutor RIT, Academic Success Center

January 2023 - April 2023  
Rochester, NY

- Tutored students in concepts like Optics, Mechanics, Gravitation, Linear Algebra, Electricity, and Calculus

### Communications Consultant RIT, Expressive Communication Center

August 2022 - April 2023  
Rochester, NY

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

### Technical Intern NextCorps

October 2021 - May 2022  
Rochester, NY

- Provided software support to founders of new startups
- Performed tasks including **video editing** and **graphic design** using **Adobe Illustrator** and **Adobe Premiere Pro**
- Invited by NextCorps as a student panelist at CollegeFEST 2022 to discuss working at a startup

## PERSONAL PROJECTS

### Art-style Mashup

- Working on a plugin for **Maya** using **C++**, **Python**, **MEL**, **CMake**, and **Visual Studio** for incorporating different art styles into 3D animation

### 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 | [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 stereoscopic concepts like movement, rotation, and the environment