

# Hrishika Roychoudhury

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## EDUCATION

### University of North Carolina at Chapel Hill | Chapel Hill, NC

B.S. in **Information Science and Neuroscience**, Minor in **Computer Science**

AUG 2022 – DEC 2025

**Relevant Courses:** Systems Programming, Data Structures, Discrete Math, Multivariable Calculus, Organic Chemistry II, Neuropsychopharmacology, Statistical & Laboratory Research Methods, Health Application Development.

### North Carolina School of Science and Mathematics (NCSSM) | Durham, NC

AUG 2020 - MAY 2022

**Weighted GPA:** 4.85      **Relevant Courses:** Molecular Genetics, Data Science, Biomedical Engineering, Physics 2 Honors

### Girls Who Code Summer Immersion Program (SIP), Bank of America | Charlotte, NC

JULY 2020

- 1 of 20 participants selected to learn CS concepts in UX, game design, building projects with languages like **Python & Java**.
- Co-founded NCSSM Girls Who Code chapter sharing resources to a platform of 80+ girls.

## EXPERIENCES

### Student Vice-President — UNC Zero Degrees

APRIL 2022 – PRESENT

- Scaled UNC's largest social networking club to **200+ active members** on Heel Life.
- Automated moderation of a platform for student communication and hosting events to foster a welcoming space.

### Product Developer — SkyeLabs Innovation Inc.

SEPT 2020 - AUG 2024

- Prototyped EcoGel, sustainable aerogel product. Filed patent. Won top honor, Pete Conrad Scholar, at Int. Challenge.
- Directed organizational operations and business plans. Built WordPress site incorporating **HTML/CSS & SEO optimization**.
- Awarded \$2,000 in funding from the Bowman-Brockman Endowment for Entrepreneurship and Advanced Research.
- Top 10 Finalist and Honorable Mention in 2021 NASA iTech initiative, an industry-level entrepreneurial competition.

### Facilitator and Teaching Assistant — UNC Girls Who Code Chapter

JAN 2023 - APRIL 2024

- Taught **Python** weekly 50+ students using **Turtle**. Mentored one-on-one & guided project building.
- Facilitated office hours and lesson plans in conjunction with 6 other TAs. Raised \$24,000+ for the Food Bank of NC.

### Work Prep Apprentice — Pluralsight and Girls Who Code (GWC)

MAY 2023 - JUNE 2023

- Selected for GWC's career readiness program with workshops by senior leaders and engineers at Pluralsight.
- Built a **React**-based quiz component and gained experience in **SDLC, Agile & Waterfall, DevOps, and Git version control**.
- Handpicked as a Closing Ceremony speaker out of over 100 participants.

## PROJECTS

### Digital Art Exhibition Catalog | Intro to New Media Course (COMM 150)

MAY 2024 - JUN 2024

- Utilized **Three.js 3D library** to program interface implementing an explorable virtual environment modeled with **Blender**.
- Employed **Photoshop** and **Twine** to create an interactive user-friendly choice-based visual novel videogame.

### Temperament Test App | Pearl Hacks Hackathon

FEB 2023

- Developed a fully functional web application with a dynamic **JavaScript** based front-end for a personality quiz.
- Received Highest STEM-Interest Inclusivity Hack Runner-up Award from QORVO.

### Journal Website | Broad Street Scientific

DEC 2020 - MAY 2022

- Designed website for Broad Street Scientific, NCSSM official journal of STEM research. Appointed as Editor-in-Chief.
- Collected, reviewed, and critiqued submissions. Interviewed industry professionals on their research and journey.
- Supervised 20+ editors and writers, successfully printing and publishing a 100-page journal.

### Green Self-Assembly of Anticancer Nanoparticles | NCSSM Chemistry Laboratory

AUG 2021 - MAY 2022

- Conducted research on synthesis of Biogenic Silver Nanoparticles using agri-food byproducts as a novel reducing agent.
- Applied computational molecular modeling with **Schrödinger Maestro, Gaussian, MATLAB, Vortex, and WebMO**.
- Selected as a top 300 Regeneron STS Scholar out of 2,162 applicants. NC International Science Challenge winner.

### 3D Animated Video | Technology Student Association (TSA)

SEPT 2019 - JULY 2022

- Collaborated in a 4-person team to convey a story with **Blender 3D animations**. National TSA Conference Finalist.
- Managed a budget of \$5,000 as Treasurer, fundraised through over 1,000 hours of community service in 2 years.
- Led 100+ students as President of NCSSM chapter. Registered for competitions and coordinated volunteering events.

## SKILLS

- Java | JavaScript | Python | C | Git | Flutter | Blender | Twine | Photoshop | Assembly | React | DevOps | FHIR
- Working proficiency in Spanish and Hindi. Fluent in English and Bengali.