

LILLY ROWLAND

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EDUCATION

Rochester Institute of Technology

Rochester, New York

Major: Bioinformatics and
Computational Biology

Minor: Computer Science

Immersion: Mathematics

BS/MS Expected: May 2026/2027

GPA: 4.0

Honors

Presidential Scholarship

Dean's List

RELEVANT COURSEWORK

Bioinformatic Languages

Computer Science I/II

Molecular Biology

Organic Chemistry

Linear Algebra

Probability and Statistics

Multivariable Calculus

SKILLS

Computer

Java HTML/CSS/JS

Python MatLab

R GitHub

Perl Pipeline development

MySQL Data analysis

Professional

Effective communicator

Strong work ethic

Detail oriented

Team player

Problem solver

Seeking a summer 2024 co-op opportunity to apply my skills in bioinformatics. Eager to use and develop my programming, statistical analysis, and biological background to advance healthcare.

EXPERIENCE

Software Engineering, *Course Assistant*

Jan. 2024 - Present

- Guide students through software engineering course in Java
- Apply essential Java principles to grade assignments and foster student development

Schulze Lab, *Lab Assistant*

Dec. 2022 - Present

- Identify glycoprotein function from mass spectra with research team
- Employ bioinformatics tools to evolve glycopeptide dataset analysis

Inclusive Excellence Summer Research, *Research Fellow*

May 2023 - Aug. 2023

- Implemented bioinformatic tools in a Python framework to optimize interpretation of glycoprotein mass spectra
- Analyzed glycopeptides to understand their roles in human health and disease
- Showcased results to over 30 faculty and peers at the annual research symposium

Bioacoustics Research in Malaysia, *Research Assistant*

May 2023

- Implemented machine learning to decipher underlying patterns of acoustic phenomena in audio data collected in the Malaysian rainforest
- Partnered with a team of five professors and six students to analyze data

Research in Science and Engineering, *Researcher*

Jun. 2021 - Aug. 2021

- Conducted research project in computational neurobiology on Wernicke's aphasia using linear algebra, Python, and MatLab
- Presented to faculty and students in a research symposium with Boston University

The Happy Apple Pie Shop, *Baker*

Oct. 2020 - Aug. 2022

- Prepared pies at a locally-owned shop that promotes a blended work environment for people with and without disabilities

COMMUNITY INVOLVEMENT

UNIVERSITY

The American Cancer Society on Campus, *Vice President*

Aug. 2022 - Present

- Organize over four events and weekly club meetings to promote cancer awareness
- Help raised more than \$70,000 in fundraiser for American Cancer Society

New Student Orientation, *Orientation Leader*

Aug. 2023

- Welcomed first-year students to support their transition to college
- Facilitated a group of 25 incoming students through orientation

Women in Computing, *Member and Events Committee*

Aug. 2023 - Present

- Encourage comradery between non-male students in computing fields
- Help organize club activities, including volunteer work and social events

College of Science Peer Mentoring Program, *Mentor*

Apr. 2022 - Present

- Support smooth transitions for first-year students through academic guidance

No Voice Zone, *Member*

Aug. 2022 - Present

- Practice American Sign Language and explore Deaf culture

HIGH SCHOOL

VEX Robotics, *Co-president, Head Builder/Designer, Programmer*

Women in STEM Club, *President, Co-founder*

Women In Leadership, *Officer*

Girls Who Code at the University of Illinois at Chicago, *Student*