

# Molly Williams

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<https://mollycwilliams.github.io/williams-mol-website/>

Boston, MA | Availability: January - August 2026

## Education

Northeastern University, Boston, MA | Khoury College of Computer Sciences

Sept 2023 – Present

Candidate for a B.S. in Computer Science, Minor in Mathematics

Expected June 2027

**Honors:** Northeastern Honors Scholarship

**Relevant Coursework:** Object Oriented Design, Discrete Structures, Mathematics of Data Models, Linear Algebra and Differential Equations, Algorithms and Data, Computer Systems, Theory of Computation, Foundations of Data Science, Number Theory, Programing Languages, Logic and Computation, Foundations of Cybersecurity

**Study Abroad:** Mathematical Heritage of Hungary,  
Corvinus University of Budapest

Summer II 2024

**Clubs/Organizations:** Oasis (Software Projects), Theme Park Engineering Club

## Technical Knowledge

**Languages:** Proficient: Java, Python | Familiar: C, HTML, JavaScript, CSS

## Personal Projects

Green Line Goods Web Application | Northeastern Oasis Software Club

Sept 2024 – Dec 2024

- Designed a platform that helps users discover trending meals and restaurants in Boston, curating personalized restaurant lists based on their preferences.
- Developed using JavaScript, React.js, and Node.js for front-end and back-end development.
- Project presented in Northeastern's OASIS Software / Coding Club

Stock Market API Simulator

May 2024 – June 2024

- Built a stock trading simulation app using Java and Swing; integrated APIs to fetch live prices and trends.
- Supported portfolio tracking and custom financial analysis. Integrated external APIs to fetch up-to-date stock prices, historical data, and market trends.
- Utilized Java, Swing, and IntelliJ for application development.

Personal Website

January 2024

- Developed a personal website in Visual Studio Code using HTML and CSS to showcase projects, skills, and information.
- Customized styling with CSS to enhance the user interface, incorporating a clean and modern design.

## Work Experience

Gelato Counter Staff | Amorino, Boston, MA

Sept 2023 – May 2024

- Provided customer service in a fast-paced environment; handled transactions and maintained product quality.
- Balanced tasks such as restocking, cleaning, and managing high-volume periods.

Software R&D Engineer Co-op | Olympus Surgical Technologies of America, Westborough, MA

Jan 2025 – Jan 2026

- Coded tools and performed research for surgical laser systems, gaining experience in Python development, hardware interfacing, research workflows, and tissue handling for experimental procedures.
- **Spectral Data Visualizer:** Built a visualization tool to analyze spectral data from surgical laser logs. Implemented data normalization and filtering for laser and light beam emissions to aid in surgical research.
- **Time Sync Tool:** Developed a synchronization tool that aligns spectral data, surgical videos, and laser logs by detecting aiming beam pulses. Enabled researchers to view and annotate spectral data alongside surgical footage.
- **Thermocouple Tool:** Built a temperature monitoring tool that reads thermocouple data from WINDAQ and generates real-time plots for experimental analysis.
- **ML Export Spectral Visualizer:** Created a spectral data visualization and export tool supporting multi-spectrum plotting, filtering, normalization, and .CSV export for machine learning integration.
- Participated in two Internal Design Feedback Sessions (IDFS) to present tools and gather engineering feedback from multidisciplinary teams.