

# Molly Owens

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## EDUCATION

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### North Carolina State University

Raleigh, NC

*B.S Computer Science — Concentration in Cybersecurity ; GPA: 3.4*

*Aug. 2021 – May 2025*

Select Coursework: Data Structures, Algorithms, Network Security, Operating Systems, Cryptography, Blockchain, Assembly

Interests: Rock Climbing, Board Games, Urban Exploration, Video Games, Crotchet

## EXPERIENCE

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### Cummins Inc.

June 2023 – August 2023

*Electrical Engineering Intern*

*Shoreview, MN*

- Automated the start-up process in Matlab for a military power generation system simulation improving the test efficiency from 30 minutes to 5 seconds
- Created an intuitive GUI for a remote testing system in order to improve usability and allow for engineers to test firmware updates without relying on a system specialist
- Found and documented multiple critical errors by integrating physical hardware and software to test a service tool
- Collaborated with teams of engineers to fix bugs in the service tool and create reliable testing documentation for future software versions

### Biomajo LLC

May 2022 – August 2022

*Software Engineering Intern*

*Morrisville, NC*

- Implemented Natural Language Processing models in Python to improve reliability of a virtual hospital simulation that allowed medical students to practice bedside manner
- Utilized Semantic Search to allow the program to summarize and rank user input providing a more realistic learning experience
- Sanitized field testing data to reduce outliers and provide reliable results used in determining a model's accuracy

### North Carolina State University

Aug. 2022 – Present

*Peer Teaching Fellow*

*Raleigh, NC*

- Assist professors in a secondary level Java fundamentals class
- Participated in weekly assignment grading of the 400+ student class
- Responsible for teaching a lab section to 20+ students and holding office hours for 2 hours a week

## EXTRACURRICULARS

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### Pack Motorsports - Formula SAE

- Design, build, and test a race car to compete in FSAE competitions, Electronics Subsection
- Skills: Soldering, Circuitry, Wiring, 3D Modeling, Arduino, CAN bus

### UVA Circle Project - Cybersecurity Class

- Two week, capture the flag format run by a UVA student. Came in 2nd place of 10
- Skills: Class Cryptography,, Website safety, Hacking/malware knowledge

### NSA - Codebreakers

- Challenges sponsored by the NSA to have students practice basic reverse-engineering and code analysis skills
- Skills: Log, Registry, Docker, Command line and Powershell

### Theta Tau Professional Engineering Fraternity (New Member Coordinator - Executive Position)

- Attend professional development and service events. Make lasting connections with other engineers

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, Matlab, Assembly

**Ethical Hacking:** Penetration testing, Knowledge of Linux, Knowledge of networking

**Computer Technology/ Programs:** Windows, UNIX, Microsoft programs, Website building, Simulink, Docker

## AWARDS

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**Siemens Digital Twin Engineering Excellence (3rd Place):** Given due to work with Siemens digital design software in creating NC State's FSAE Electric Vehicle wiring harness