C L A R A D I M A R C O

Raleigh, NC ✧ github.com/ClaraLeonora ✧ dgdimarc@ncsu.edu ✧ 980-384-4566 ✧ linkedin.com/in/claraleonora

O B J E C T I V E

Driven by a vision to create a lasting impact in my community, my academic journey is marked by a commitment to both leadership and community engagement, showcasing my dedication to broadening access to computing and fostering inclusive educational environments.

E D U C A T I O N

NC State University | B.S. in Computer Science | **GPA:** 3.73 **May 2026**
Grand Challenges in Engineering Scholar | STARS Computing Corps
B.S. in Mathematics | Magna Cum Laude **May 2022**

S K I L L S

Languages: Java, C, Python, JavaScript, HTML, CSS
Technical: React JS, Tailwind CSS, Bash, Git, Mathematica, Excel

E X P E R I E N C E

Teaching Assistant | NC State Department of Computer Science | Raleigh **August 2024 – Present**

- Mentor over 100 introductory Java programming students by providing guidance and constructive feedback for lab assignments, algorithm development, and software testing.
- Coordinate weekly office hours to deliver personalized, one-on-one support to students.

Research Assistant | SRCA REU Game2Learn Lab | Raleigh **May 2024 – August 2024**

- Conceptualized and led a research project to identify optimal GPT-4 logic proof generation techniques, with the goal of enhancing its integration into NC State classroom software.
- Developed an innovative prompt engineering method to improve LLM performance in generating logic proofs.
- Programmed a Disjunctive Normal Form algorithm to solve propositional logic proofs.

Research Scientist | NASA Mission Concept Academy | Raleigh **May 2024 – August 2024**

- Collaborated with an interdisciplinary team of engineering students to develop a lunar surface Mission Design, focusing on identifying water-ice and analyzing lunar volatiles in Permanently Shadowed Regions (PSRs).
- Developed scientific mission objectives and created a Science Traceability Matrix (STM) to effectively map mission requirements and instrumentation.
- Co-authored essential documentation including the Mission Definition Review (MDR), System Requirements Review (SRR), and Mission Concept Review (MCR), ensuring comprehensive planning and alignment with mission objectives.

P R O J E C T S

Care Pack | Personal Project | NC State **August 2024 – Present**

- Developing a responsive, cross-platform mobile application using Expo and React JS, integrating Clerk for robust authentication.
- Enhances student well-being by offering an anonymous tool that centralizes access to on and off-campus resources.

L E A D E R S H I P

Treasurer & Fundraising Chair | Grand Challenges Student Organization | NC State **August 2024 – Present**

- Organize and facilitate events and workshops to support the Grand Challenges Scholars Program.
- Oversee biannual fundraising initiatives, including hosting events and engaging with students on campus.

STARS AI Scholar | STARS Computing Corp | NC State **December 2023 – Present**

- Led initiatives to engage K-12 students with disabilities, along with their families, to promote interest and accessibility in computing.
- Organized and hosted an outreach event for an elementary school robotics club, encouraging interdisciplinary career exploration.