

# Molly Palko

DOD SECRET Clearance

[mpalko26@unm.edu](mailto:mpalko26@unm.edu)

[github.com/MollyPalko](https://github.com/MollyPalko)

## SUMMARY OF QUALIFICATIONS

- Proficiency in Java, C/C++, OOP, SQL, Linux, Git, UML, Python, AFSIM, and AutoCAD
- Experience writing and applying advanced algorithms to solve real problems
- Team player: worked collaboratively with professor and other section leaders to develop new CS152 Java course programming project assignment
- Excellent communication skills: have written, filmed and directed two short features including receiving one award at a juried film festival
- Completed all required CS and math courses

## EDUCATION

- University of New Mexico (Fall 2022 - present): GPA 3.9/4.0
  - BS in Computer Science, Minor in Math, expected graduation Dec 2025
  - Certificate in Honors Interdisciplinary Liberal Arts

## PROFESSIONAL EXPERIENCE

- Air Force Research Labs - Directed Energy Internship (Summer 2024 - present)
  - Model High Power Microwave missions using AFSIM and develop code to integrate AFSIM with external modeling and machine learning tools
  - Create UML and written documentation for AFSIM repository and contribute to modular battle management algorithm development
- Section Leader - CS152 Intro to Computer (Java) Programming (Fall 2023 - present)
  - Responsibilities include teaching weekly labs, grading and writing new projects/exams, holding weekly office hours, and lesson planning

## LEADERSHIP & TEAMS

- UNM Supercomputing Team (Fall 2024, Spring 2025):
  - Worked on periodic challenges including benchmarking with HPL/HPCG, parallelization techniques, and AWS during Winter Classic Invitational
  - Competed at ACM/IEEE International Conference for High Performance Computing, SC24, focusing on optimizing ICON application for specific hardware
- Team Manager during CS460 Software Engineering course (Fall 2024):
  - Managed team dynamics and workflow for projects ensuring deadlines are met and reports are clear, concise, and follow required notation
- UNM Korean Language and Culture Club - Executive Board (Fall 2023 - Spring 2025):
  - President - Led team of officers in planning events, managing club finances, and overseeing activities in collaboration with university organizations
  - Education Chair - Develop curriculum and manage teachers for Korean language classes
- Marine Corp Junior ROTC Executive Officer (2021 - 2022):
  - Led diverse teams of up to 100 people to complete inventory and organization of assets, produce and present concise reports, plan and host events, and train new recruits