

# UMBERTO GHERARDI

Computer Engineering Student at Colorado School of Mines

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## EXPERIENCE

**Can/Am Technologies** | Software Developer Intern | Lakewood, CO  
May - Aug 2023

- Led the development of an internal-use Angular application and ASP.NET Core Web API to communicate with pre-existing Oracle databases.
- Resolved a manufacturer-related error with a major peripheral integration, potentially saving one client thousands of dollars as a direct result.
- Engaged in flagship product improvement and development via regular frontend and backend sprint work.
- Performed code reviews and QA testing for several major features and fixes.

**Sierra Trading Post** | Sales Associate | Fort Collins, CO  
May - Dec 2022

- Worked with management to organize dynamic store inventory, decreasing the time and effort required for employees and customers to locate specific stock.
- Provided quality customer service for online and in-store purchases.
- Prepared a variety of merchandise with necessary tags and markings for on-floor presentation and display features.
- Secured hundreds of dollars in savings for the company and customers through successful promotion of the TJX Rewards program.

## EXTRACURRICULARS

**Google ExploreCSR Program** | Undergraduate Researcher  
Feb - Apr 2023

- Worked alongside a Colorado School of Mines PhD student to research instance segmentation applications within the field of biotechnology.
- Built a web scraper in Python 3 to obtain model data from free-use image websites.
- Implemented and tested the effectiveness of the YOLACT: Real Time Instance Segmentation neural network, utilizing Google Colab for GPU processing.

**Association for Computing Machinery** | Vice President  
Mar 2023 - Present

- Performed company outreach and established connections with representatives for bi-monthly tech talk events.
- Worked with other ACM officers to schedule events and plan weekly meetings.
- Volunteered at the 2023 Mines HSPC event, a high school programming competition for local schools sponsored by the Computer Science department.

**Tau Beta Pi Engineering Honor Society** | Member  
Mar 2023 - Present

## EDUCATION

**2025 B.S. Computer Science - Computer Engineering Track**

Colorado School of Mines

GPA: 4.0

2023-24 Transamerica C-MAPP Scholar

Presidential Scholarship Recipient

Dean's List (4/8 semesters)

## SKILLS

Proficient:

- Python
- Java
- C++
- JavaScript
- Angular
- Git

Familiar:

- HTML/CSS
- C#
- RISC-V Assembly
- SQL

## RELEVANT COURSEWORK

In Progress:

- Digital Logic
- Database Management

Completed:

- Programming Concepts
- Data Structures & Algorithms
- Computer Organization
- Software Engineering
- Python-Based Computing
- Circuits
- Introduction to Linux