

# Zahra Cheeseman

[zahracheeseman@gmail.com](mailto:zahracheeseman@gmail.com) | +17196535818 | [LinkedIn](#) | [GitHub](#) | [Personal Website](#)

## EDUCATION

**Colorado College**, Colorado Springs, CO

June 2025

Bachelor of Arts, *Computer Science* and *Mathematics* Double Major

**GPA:** 3.95

**Relevant Courses:** Data Structures and Algorithms, Database Management, Software Design, Theory of Computation, Linear Algebra, Number Theory, Calculus 3, Discrete Mathematics, Computer Organisation, Real Analysis I, Abstract Algebra I and II, Natural Language Processing

**Awards:** Euclid Scholarship Recipient to recognise outstanding work in Mathematics, Statistics and Computer Science

## TECHNICAL SKILLS

**Languages:** Java, Python, C, Kotlin

**Tools:** PyTorch Geometric, Transformers, RX Java, git

**Databases:** MySQL, SQLite, MongoDB

## RELEVANT EXPERIENCE

**Software Engineering Intern, Hammerhead/SRAM, Colorado Springs, CO**

May 2024- July 2024

Machine Learning Project

- Implemented the functionality of a machine learning model to generate rider suggestions on the Karoo, an android based cycling computer, in Kotlin
- Android integration implementation included utilising RX Java- an API used for asynchronous programming- for data streaming, and AWS cloud
- Worked as part of a cross functional Agile SCRUM software development team, and participated in recurring 2 week development sprints

**Undergraduate Researcher, Colorado College, CO**

June 2023 - August 2023

Computer Science Machine Learning Research Position

- Used PyTorch Geometric to conduct graph neural network research
- Developed and implemented a model in Python evaluating the change of linear assignments between two graphs over 100 epochs
- Collaborated with a professor to refine research methodologies
- Evaluated literature in the field to understand contemporary practices
- Presented weekly on project progress and problem-solved to achieve weekly expectations

## RELEVANT PROJECTS

**Optimisation and Deep Learning Course Project**

October 2024

Implementation and Analysis of Optimisation Algorithms on the Travelling Salesman Problem (completed in ~1.5 weeks)

- Worked with a teammate to create a transformer enhanced ant colony optimiser, which used a neural network to generate initial parameters. Compared against original ACO algorithm and documented similar performance with decreased runtime.

**Software Design Course Project**

March 2023

Football Betting Simulator (completed in 3.5 weeks)

- Organised a team of four students to completing a football betting software which took English premier league data from a historic season, and allowed users to retrospectively bet on games and keep track of returns with in-game currency
- Controlled the organisation and management of the team, facilitated communication, kept track of progress, goals and expectations, and undertook substantial load of writing the project documents
- Implemented calculations algorithm in Java and mySQL database

## ADDITIONAL EXPERIENCE

**Women in Sports Tech (WiST) Fellow**, Remote program

2024

**Women's Soccer NCAA Division 1 Player**, Colorado College, CO

August 2021- Present

**Moroccan Women's National Team Player**, Rabat, Morocco

June 2021, November 2023

**Fitness Center Monitor**, Colorado College, CO

May 2022- Present