

Zahra Cheeseman

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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

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

RELEVANT 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 run on the Karoo, an android based cycling computer, in Kotlin, a language for android app development
- 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

Computer Science (Machine Learning) Research, Colorado College, CO

June 2023 - August 2023

9 Week Student 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

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
- Built the algorithms in Java for calculation in the code, including betting and return odds
- Aided other team member in the mySQL database

Natural Language Processing Project

January 2024

Text Summary Generator Website (completed in ~1 week)

- Fine-tuned a pre-trained model on academic texts and abstracts for text summarisation using Transformers to generate summaries for website created by team member

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