

# Oliver Ramirez

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## EDUCATION

**Colorado College**, Colorado Springs, CO

December 2025

*Bachelor of Arts*, Major: Computer Science, Minor: Statistics

- **GPA: 3.86**
- **Euclid Scholarship recipient** for outstanding performance in mathematics and computer science
- **Relevant Coursework:** Software Design, Computer Organization, Natural Language Processing, Optimization and Deep Learning, Team Software Project, Statistical Methods, Linear Algebra, Calculus 3, Data Structures and Algorithms, Discrete Mathematics

## SKILLS

**Programming Languages:** Java, C, Python, R, SQL, HTML, CSS, JavaScript

**Technical / Computer Skills:** Git, GitHub, Atlassian tools, Eclipse, Linux, MacOS, Windows, Eclipse, VSCode, JupyterLab

**Frameworks:** React, Flask, Matplotlib, Tidyverse, NetworkX, BeautifulSoup4, scipy, numpy, scikit-learn, huggingface, etc.

## RELEVANT EXPERIENCE

**Jacobs NORAD Operations Group**, Colorado Springs, Colorado

May - August 2024

*Software Engineer Intern*

- Obtained Secret Security Clearance and CompTIA Security+ certification to meet security requirements and perform job duties.
- Contributed to the Communication Processing Systems team, processing satellite and sensor data for advanced Satellite and Missile Tracking Systems with complicated multithreaded programs.
- Maintained and upgraded legacy systems utilizing Java and C, improving system performance and reliability.
- Operated within an Agile environment, employing tools such as Bitbucket, Git, and Jira to adhere to Agile best practices and manage the software development lifecycle (SDLC).

**Colorado College Sustainable Investment Portfolio**, Colorado Springs, Colorado

March 2024 - Present

*Head of Technology*

- Lead coding projects for the investment portfolio, aligning technical solutions with student interests and club objectives.
- Facilitate Agile development practices, including defining user stories, guiding non-technical members as stakeholders, and fostering collaboration to achieve project goals.
- Enhance team productivity by implementing Agile methodologies, which improved project outcomes and engagement among club members.

**Accounting and Financial Statement Modeling Course** Colorado Springs, Colorado

January 2024

- Completed an 2 day course on accounting and financial statement modeling through Wall Street Prep
- Learned excel spreadsheet basics along with model balancing and implementing automated checks

## PROJECTS

- **Machine Learning with Spotify API:** Fit Linear Regression, K nearest neighbor, Ridge, and LASSO regression models to 1200+ tracks from Spotify API. Identified largest indicators of song popularity.
- **Osu Game Clone:** Used Java to create a clone of the rhythm game Osu. Read downloadable files to play music and display clickable objects on the screen that align with the rhythm of the music. Used SQL for leaderboards.
- **AI Chatbot:** Used flask, hugging face machine learning models, HTML, and CSS to create a conversational chatbot web interface.

## LEADERSHIP & INVOLVEMENT

- **Colorado College Men's NCAA Soccer**
  - Southern Collegiate Athletic Conference: Academic All-Conference 2022, 2023
  - Volunteer with Special Olympics, Parents Night Out, TESSA Safehouse
  - Student Athlete Advisory Committee (SAAC)
- **Colorado College Coding Club**