JACK LAY
Student of Computer Science

PROFILE

I am a 3rd year computer science student at CU Boulder, on track to graduate Spring 2024. I plan to pursue a career in software engineering, data analysis, or broader machine learning/AI.

CONTACT

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Projects
Chess Engine
This project combines all aspects of traditional programming I've developed to date. This took the form of harnessing many algorithms, using a diverse set of data structures, and integrating an agent to play the optimal strategy.

Analyzing Patterns in Sports Gambling
In this project, I used Python and common data science libraries like NumPy and Pandas to determine if betting on the point spread would be more profitable than on the underdog for the '07-'08 season through the '22-'23 season.

Q Learners w/ OpenAI Gym
In order to strenghten my Machine Learning skills as well as my general programming skills. I wrote a Q Learner, Approx Q Learner, and Deep Q Network and trained them on games from OpenAI's Gym
(More projects and further details can be found on my website.)

EDUCATION

University of Colorado Boulder
August 2022 – Present; Graduate May 2024
Major: Computer Science
Relevant Courses: Intro to Data Science, Intro to AI, Machine Learning, Technical Writing

Western Colorado University
Aug 2020 - May 2022
Major: Computer Science
Relevant Courses: Calc 2, Discrete Math, Linear Algebra

University of Colorado Denver
August 2018 – May 2019
Major: Physics
Relevant Courses: Calc 1

WORK EXPERIENCE

EC Data Systems
Server Tech
May–August 2016-2019, 2021-2022
Supported data center expansion and maintenance through assembly, light configuration, and installation of company servers. Additionally, terminated CAT 5 cables (straight and crossover). Designed an SQL tool to keep track of internal networking, also created a new company website.

J.J. Lay Company
Installation Tech
May – August 2014, 2020
Facilitated the installation of Residential Water Heaters, AC Condensers, and Furnaces, managed warehouse inventory.

SKILLS

Python, Java, C, C++	Object-oriented and Functional Programming
Microsoft Word, Excel, PowerPoint and other productivity apps	Attention to detail and ability to learn from experience