

Andrew Huycke

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EDUCATION

Colorado School of Mines

Aug 2021 - May 2025

Bachelor's of Science in Computer Science + Data Science (Expected May 2024)

GPA: 3.989

Master's of Science in Computer Science (Expected May 2025)

Relevant Coursework: Machine Learning, Data Structures, Algorithms, Linux OS, Data Science, Software Engineering, Database Management, Multivariate Analysis, Applied Statistics, Probability, Linear Algebra

EXPERIENCE AND PROJECTS

Product and Strategy Intern

Summer 2023

RSM

Greenwood Village, CO

- Assembled a centralized database of client information in **SQL** to facilitate client-specific recommendations
- Created **Python** programs to clean raw Excel data
- Built a Python script to automate the data entry pipeline for all employees
- Leveraged **x++** to scrape client data from Dynamics 365
- Developed a **PowerApp** to allow for seamless viewing and querying of the client database

Field Session Intern

Fall 2023

HiLabs

- Created a large language model (LLM) based educational tool to assess student knowledge in courses
- Utilized **langchain** and **llama** within **Python** for LLM prompting
- Developed a Python notebook to parse course data and create a knowledge graph with **NetworkX**
- Generated questions to ask students by feeding weakly connected components of the knowledge graph to llama
- Performed extensive unit testing to iteratively improve LLM question generation and answer validation prompts
- Gained experience with high performance computing (HPC) and resource allocation to run a llama 70b model

NBA Player Height, Weight, and Position Predictor

- Created several machine learning models in **Python** using **Sklearn**, **Pandas**, and **Numpy** to predict NBA player heights, weights, and positions given their per 36 minute stats
- Models incorporated include linear regression models to predict height and weight, as well as a logistic regression clustering model to predict player positions
- Leveraged **BeautifulSoup** and **Request** libraries in Python to make a script that scrapes NBA player names, heights, and weights off the internet and generates a .csv file with the data

TA/Mentor for Introduction to Computer Science

Aug 2022 - Present

- Assisted students with Python coding projects during office hours and in class
- Organized meetings with 20-30 students each semester to provide course guidance

AI Chef Project (1st place out of 12 groups)

- Leveraged the **OpenAI API** to generate customized recipes for users based on ingredients available, dietary restrictions, price restrictions, and more.
- Built user interface on top of **Streamlit** to allow for user input, image display, and recipe display

TECHNICAL SKILLS

Languages: Python, R, C++, C, Java, PostgreSQL, Bash, RISC-V, LaTeX, OCaml, x++

Development Tools: VS Code, Linux, Git, Jupyter Notebooks, RStudio, JetBrains, Vim, Eclipse, Docker

ACTIVITIES AND AWARDS

Awards: TIAA C-MAPP Scholar, 3x AIME qualifier, ARML 1st place team, 3x UNC Math Contest top 10 finisher

Colorado School of Mines Club Volleyball

Aug 2021 - Present

- Compete in multiple nation-wide tournaments each year as an opposite-hitter; assist with fundraising events

Sigma Phi Epsilon Fraternity

Sep 2021 - Present

- Host study sessions for members as a member of the Learning Community cabinet
- Responsible for upholding house budget for supplies as a member of the Finance cabinet