

# Andrew Huycke

918-800-9785 ♦ andrewhuycke88@gmail.com ♦ github.com/ahuycke

## EDUCATION

---

### Colorado School of Mines

Aug 2021 - May 2025

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

GPA: 3.987

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

Hi-Labs

- 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
- Built a GUI on top of **tkinter** to allow for seamless usage of the tool

### 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 students to provide course guidance

## 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