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: 3.987
Master's of Science in Computer Science (Exptected 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

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

TA/Mentor for Introduction to Python Aug 2022 - Present

- Assist students with Python coding projects during office hours
- Organize meetings with students to provide guidance to students and discuss course progress
- Give weekly presentations to students surrounding course content

Math Department Grader Jan 2022 - May 2022

- Responsible for grading all assignments for a section of MATH 225: Differential Equations

PROJECTS

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

Lagrange Interpolation/Polynomial Regression Application

- Developed an application from scratch in **C++** that computes the lagrange interpolating polynomial of data
- Incorporated ordinary least squares regression to give polynomial regression curves of any appropriate order
- Integrated graphics through the **SFML** library used to create a plot of points and regression curves
- Applied topics from linear algebra to build a matrix class with necessary methods. Topics include computing matrix determinants recursively, computing adjugate matrices, and computing the inverse of a matrix

TECHNICAL SKILLS

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