Andrew Huycke

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EDUCATION

Colorado School of Mines Aug 2021 - May 2024
Bachelor's of Science in Computer Science + Data Science GPA: 3.989
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 lllama 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 a 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