

# Andrew Huycke

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## EDUCATION

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### Georgia Institute of Technology

Aug 2024 - May 2025

Master of Science in Analytics (In Person)

### Colorado School of Mines

Aug 2021 - May 2024

Bachelor's of Science in Computer Science + Data Science

GPA: 3.99

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

## EXPERIENCE

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### Nuveen

Jun - Aug 2024

Data Science and Technology Intern

Charlotte, NC

- Automated business metric extraction for the Responsible Investments Team, cutting data processing time per document from 12 minutes to 10 seconds.
- Built backend with **Python** and **Langchain** in order to interface with large language models
- Implemented retrieval augmented generation (RAG) to improve quality of extracted data
- Deployed the application in an elastic cloud compute server in **AWS** for scalability

### HiLabs

Aug - Dec 2023

Field Session Intern

Golden, CO

- Created a large language model (LLM) based educational tool to assess student knowledge in courses
- Built knowledge graphs of materials with **NetworkX**, leading to an 80% decrease in question generation time
- Performed iterative unit testing on LLM answer validation prompts, resulting in a 60% increase in accuracy

### RSM

Jun - Aug 2023

Product and Strategy Intern

Greenwood Village, CO

- Designed and assembled a database of client information in **SQL** to facilitate client-specific recommendations
- 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

## PROJECTS

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### AI Chef Project (1st place out of 12 groups in CSCI 470)

- 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

### NBA Player Height, Weight, and Position Predictor

- Created machine learning models in **Python** using **Sklearn**, **Pandas**, and **Numpy** to predict NBA player heights, weights, and positions given their stats, with the best model achieving 0.81 accuracy
- Leveraged **BeautifulSoup** and **Request** libraries in Python to scrape player information

## TECHNICAL SKILLS

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**Languages:** Python, R, C++, C, Java, PostgreSQL, HTML, CSS, JavaScript, Bash, RISC-V, LaTeX, x++

**Development Tools:** VS Code, Linux, Git, Jupyter Notebooks, RStudio, JetBrains, Vim, Eclipse, Docker, AWS, High Performance Computing (HPC)

## ACTIVITIES AND AWARDS

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

**Activities:** Colorado School of Mines - Club Volleyball, Sigma Phi Epsilon Fraternity, Putnam Club

**Outside Interests:** Skiing, Basketball, Hiking, Watching Sports, Solving Math Problems