Andrew Huycke

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EDUCATION

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: 3.990

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

EXPERIENCE

Nuveen Summer 2024
Data Science and Technology Intern *Charlotte, NC*

- Created application to extract business metrics from documents, achieving a 5000% speedup in data extraction
- 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 Fall 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 Summer 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

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

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

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, AWS, High Performance Computing (HPC)

ACTIVITIES AND AWARDS

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

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

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