Andrew Huycke

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EDUCATION

Georgia Institute of Technology Aug 2024 - May 2025
Master of Science in Analytics, Computational Data Analytics Track

Colorado School of Mines Aug 2021 - May 2024
Bachelor's of Science in Computer Science + Data Science GPA: 3.99

TECHNICAL SKILLS AND COURSEWORK

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, Amazon Web Services (AWS), High Performance Computing (HPC)
Coursework: Machine Learning, Artificial Intelligence, Multivariate Analysis, Probabilistic Models

EXPERIENCE

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

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

ACTIVITIES AND AWARDS

Activities: *Georgia Tech* – Graduate Teaching Assistant for CSE 6040; *Colorado School of Mines* – Teaching Assistant for CSCI 101 and CSCI 128, Club Volleyball, Sigma Phi Epsilon Fraternity, Putnam Club

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