

COLE LE MAHIEU

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SUMMARY: A background in experimental physics has given me practical experience in the analysis of large and complex datasets from the world's most powerful particle collider. I seek to apply these problem-solving and technical skills to data science and analytics positions in industry.

TECHNICAL SKILLS

- C++
- Python
- Linux, Bash
- SQL
- Git
- Java

SQL library webpage project: https://github.com/colelemahieu/library_sql_web_project

Databricks SQL/PySparks project: https://github.com/colelemahieu/Databricks_Seattle_Libraries_Dataset_Project

EXPERIENCE

Data Analyst

University of Kansas (Spring 2022 - Present) Lawrence, KS

- Created C++ and Python scripts to ingest, curate, and visualize data from the Large Hadron Collider (the world's largest and most powerful particle accelerator)
- Used distributed computing systems to efficiently filter and transform terabyte-scale datasets
- Performed statistical modeling and background fitting on experimental data
- Communication and teamwork skills developed through involvement in international collaborations at the European Council for Nuclear Research

Software Tester

On-site at the European Council for Nuclear Research (CERN, Fall 2022) Geneva, Switzerland

- Developed C++ and bash scripts to optimize and debug the data pipeline for the CMS detector's zero-degree calorimeters at the Large Hadron Collider

Graduate Teaching Assistant

University of Kansas Lawrence, KS

- PHSX 616: Physical Measurements, Spring 2023-Spring 2024, Spring 2025
 - Instructed students in Python fitting to increase proficiency in data visualization and interpretation
 - Helped students develop problem solving and critical thinking skills through experimentation and paper writing

EDUCATION

Doctor of Philosophy in Experimental Nuclear Physics

University of Kansas (December 2025) Lawrence, KS

- GPA 3.91

Bachelor of Science in Physics and Mathematics

Union University (December 2018) Jackson, TN

- GPA 3.87
- 2018 Recipient Academic Excellence Medal for a Major in Physics
- 2018 Recipient Academic Excellence Medal for a Major in Mathematics