

# COLE LE MAHIEU

**Email:** colelemahieu@gmail.com | **Cell:** (731) 217-7043 | **Website:** [colelemahieu.com](http://colelemahieu.com)

**LinkedIn:** [www.linkedin.com/in/cole-le-mahieu-128369296](https://www.linkedin.com/in/cole-le-mahieu-128369296)

**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

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

**SQL library webpage project:** [https://github.com/colelemahieu/library\\_sql\\_web\\_project](https://github.com/colelemahieu/library_sql_web_project)

**Databricks SQL/PySparks project:** [https://github.com/colelemahieu/Databricks\\_Seattle\\_Libraries\\_Dataset\\_Project](https://github.com/colelemahieu/Databricks_Seattle_Libraries_Dataset_Project)

## EXPERIENCE

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### 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

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### 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