

EMMA FERRALL

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OBJECTIVE

Detailed-oriented environmental science professional with 2 years of experience in data collections, analysis, and technical reporting. Currently pursuing a degree and certification in Management Information Systems (MIS) focused on Python, Data Visualization, and SQL. Seeking to leverage analytical skills and domain expertise in a data analyst role.

EXPERIENCE

July 2024 - Present

Quality Lab Analyst • Bunge North America

- Utilized LIMs to ensure accurate data entry, quality approval, and regulatory compliance for chemicals used in food/soap production and biofuels.
- Conducted precision testing using NMR, FTIR, and GC to assess chemical quality, ensuring adherence to industry standards and minimizing risks in consumer and industrial applications.

January 2024 – July 2024

Lead Lab Technician • HGS Engineering

- Conducted Legionella and water quality testing using filtration, dilution, and HPC methods, ensuring adherence to VA contract regulations and safeguarding water systems for clients.
- Streamlined testing workflows and organized team priorities, improving lab efficiency and reducing turnaround time for quality reports.

February 2021 – July 2023

Shift Manager • Copper House Deli

- Managed ordering and tracking inventory along with analyzing usage trends to minimize waste and improve cost efficiency.
- Processed customer payments and conducted daily cash reconciliations ensure precise financial records and prevent discrepancies.

PROJECTS

- Collaborated with group members to develop and present the modeling of a university enrollment system using a Data Flow Diagram (DFD).
- Designed and implemented a Python application with a graphical user interface (GUI) to simulate a retail checkout system, including receipt generation and user input validation.

EDUCATION

University of Alabama at Birmingham

Expected: December 2025

Post-bacc. Management Information Systems

Relevant Coursework:

- System Analysis
- Python
- Networking
- Database Management

Auburn University at Montgomery

Conferred: July 2023

B.S. in Environmental Science

- Geographic Information Systems (GIS)
- Biostatistics
- Environmental Law
- Genetics
- Biochemistry

KEY SKILLS

- Python
- Data Analysis
- Data Entry
- Excel
- Lab Information Systems (LIMS)
- Gas Chromatography (GC)
- Fourier Transform Infrared Spectroscopy (FTIR)
- Report Creation
- Nuclear Magnetic Resonance (NMR)
- Geographic Information Systems (GIS)