

Matthew Wermers

Castle Rock, CO | 720-341-4962 | matthew.wermers@gmail.com
linkedin.com/in/mattwermers

Summary

Early-career computer scientist and software developer specializing in data science, automation, and cloud-based data engineering. Experienced in architecting scalable, HIPAA-compliant ETL pipelines and managing technical version control within regulated environments. Proven track record of leveraging a background in biochemistry and laboratory operations to ensure rigorous data integrity and documentation in complex software projects.

Education

University of Colorado

Expected Dec 2026

B.S. Applied Computer Science

Coursework: Discrete Structures, Data Structures, Algorithms, Database Systems, Data Science, Information Visualization, Discrete Mathematics, Linear Algebra, Computer Systems

Colorado State University

Dec 2022

B.S. Biochemistry (Minor: Molecular Biology)

Technical Skills

Languages: C#, Python (Pandas, NumPy), SQL, NoSQL, C/C++, JSON, LaTeX

Data Engineering: Azure Functions (Isolated Worker Model), ETL Pipelines, Data Validation, EDA

Compliance: HIPAA/CLIA/GMP Data Integrity, Metadata Traceability, SOP Documentation

Systems: Azure SQL, Git, Power BI, LabVantage LIMS, SharePoint

Professional Experience

Nierman Practice Management

Mar 2026 -- Present

Software Developer Contractor

- Architecting and developing Azure-based ETL pipelines for the DentalWriterPlus project, utilizing an Isolated Worker model to migrate EMR data into Azure SQL databases.
- Implementing state management patterns and domain-driven design to ensure data integrity during complex ingestion cycles within medical and dental billing environments.
- Maintaining rigorous security standards and HIPAA compliance for cloud-based data systems and automated workflows.
- Managing technical version control and project structure via Git to support collaborative software development.

Kelly Scientific Recruiting (Contractor)

Apr 2024 -- Sep 2025

Newmont Mining Corporation | Analytical Chemistry Technician & Data Support

Jun 2024 -- Apr 2025

- Developed Python scripts to automate data entry for a variety of laboratory instrumentation, reducing 1-2 hour manual data entry time for mass spec results to a 15 minute update cycle.
- Navigated an undocumented legacy database to map relationships where I identified a self-self dependency issue. Developed a parameter-table system to workaround the issue and generate Power BI-based longitudinal and batch-level quality metrics that previously required months of manual effort.
- Collaborated with chemists to correct and update LIMS workflows, ensuring accuracy of updates through pre-deployment testing.

Eurofins Donor & Product Testing | Sterility Technician I

Apr 2025 -- Sep 2025

- Managed healthcare-related data for clinical specimens in a CLIA-regulated setting.
- Performed structured data entry and validation to maintain compliance with patient-data standards.
- Experience with HIPAA regulations.

Tolmar Pharmaceuticals

Jul 2022 -- Sep 2023

Quality Control Associate

- Maintained precise, GMP-compliant records supporting manufacturing batch release and regulatory inspections.

Flagship Biosciences

Jun 2022 -- Mar 2023

Scanning Lab Technician

- Audited digital pathology metadata for accuracy and completeness in Phase I--III clinical trial datasets.
- Identified and documented data discrepancies to ensure the integrity of research-bound datasets.