

# James Kline

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Chemical Engineering Student

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## Education

**Case Western Reserve University** - Cleveland, OH

Bachelor of Science in Engineering, Chemical Engineering

Minor: Business Management | GPA: 3.43 | August 2022 - Expected May 2026

- Relevant Coursework: Separation Processes, Chemical Reaction Engineering, Process Design & Safety, Senior Lab, Transport Phenomena, Measurements Lab
- Activities: Varsity Football Team

## Technical Skills

- Engineering Tools: COMSOL Multiphysics, Aspen Plus, LabVIEW
- Software: Microsoft Office Suite
- Core Skills: Process Simulation, Data Analysis, Technical Communication, Lab Techniques

## Experience

**Undergraduate Research** - CWRU Department of Chemistry

Researcher, Burda Group | May 2025 - August 2025

- Operated and calibrated water activity sensors over 20+ hours per week to evaluate ionic liquid-water interactions to inform optimization of flow battery technology
- Compiled results using Excel and graphical analysis to visualize trends in ionic liquid hydration
- Met weekly with Dr. Burda to present progress, clarify data interpretations, and align on project goals

**Covestro** - Pittsburgh, PA

Sales and Market Development Intern | May 2024 - August 2024

- Analyzed demolition proposals and presented executive summaries that informed contractor selection decisions.
- Conducted research on 15+ energy storage markets and emerging technologies, supporting future sales targeting strategies.
- Consolidated global market share data across teams in Europe, Asia, and North America to generate competitive insights.

**The Fresh Market** - Mt. Lebanon, PA

Produce Team Member | June 2022 - August 2022; Dec 2022 - Jan 2023

- Managed inventory rotation and merchandising for optimal product freshness and customer satisfaction.
- Prepared and displayed produce in a high-volume retail environment, maintaining compliance with food safety standards.

## Leadership & Extracurricular Activities

- Case Western Reserve Football Team - 2x Presidents' Athletic Conference Academic Honor Roll
- High School Wind Ensemble & Jazz Ensemble - Leadership roles in competitive musical groups