

# Codie Freeman

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## Professional Summary

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GMP-trained Analytical Chemist and Pharmaceutical Chemistry student. Skilled in solid-state and advanced analytical techniques, experienced generating datasets for projects. Strong understanding of data integrity (ALCOA++) and regulatory compliance, alongside prior management experience in a regulated environment.

## Work Experience

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### Student Scientist, Resolian – Sandwich, Kent

Aug 2025 – Aug 2026

- **Method Development:** Achieved up to 50% run-time reduction across APIs by designing and executing an iGC-SEA case study. Authored an internal report to support client queries and method development.
- **Process Improvement:** Optimised light microscopy workflows, by reducing analysis time replacing a multi-step manual composition process with a built-in tool, delivering a single, consolidated image.
- **Technical Training:** Implemented improved workflow by creating training resources and leading a session to 3 foreign particulate analysts, with materials shared across the wider lab.
- **Data Integrity:** Produced physicochemical datasets across R&D and GMP projects, contributing to 5+ sponsor reports. Ensuring complete audit trails and accurate lab notebook documentation.

### Shift Manager, JD Wetherspoon – Reading, Berkshire

Jan 2022 – Jun 2025

- **Team Leadership:** Managed a 90+ person team, improving internal audit scores by 15% over two years in role through onboarding new staff and enforcement of SOPs.
- **Regulatory Coordination:** Led a regulatory inspection that achieved a 5/5 compliance rating, through maintained staff training and documentation in a fast-paced, regulated setting.

## Education

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### BSc (Hons) Pharmaceutical Chemistry, University of Reading (Predicted: 2:1)

Sep 2021 – Jun 2027

- **Key modules:** Pharmaceutical Chemistry, Further Organic Chemistry, Further Physical Chemistry, Python, AI and Machine Learning for Chemical Sciences.

### Pharmaceutical Practical Project (First-class, 82%)

- **Experimental Design:** Quantified antiretroviral drugs in simulated bodily fluids, generating calibration curves ( $1-100 \mu\text{g mL}^{-1}$ ,  $R^2 > 0.995$ ) and confirmed target APIs via HPLC-MS retention time analysis.
- **Method Validation:** Assessed method reliability through residual error analysis, LOD/LOQ and calibration checks, identifying limitations in accuracy and reproducibility.

## Technical Skills

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**Analytical & Separation:** HPLC-MS, GC, NMR ( $^1\text{H}$  &  $^{13}\text{C}$ ), FTIR, TLC.

**Solid-State Methods:** iGC-SEA, DVS, PXRD, DSC, TGA, SEM, Light Microscopy.

**Quality & Compliance:** GMP, ALCOA++, CAPA Processes, SOPs, COSHH, Risk Assessment, Data Integrity.

**Computational & Data Analysis:** Python (Pandas, NumPy, Matplotlib, Jupyter), Git and GitHub.

## Professional Development & Volunteering

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### STEM Ambassador, STEM Learning UK

Jul 2025 – Present

- Deliver outreach through the *I'm a Scientist* programme, supporting and encouraging student engagement in chemistry and pharmaceutical sciences.

### Professional Engagement

- Member of the Royal Society of Chemistry (RSC), The Organisation for Professionals in Regulatory Affairs (TOPRA), Joint Pharmaceutical Analysis Group (JPAG) and Academy of Pharmaceutical Sciences (APS).
- Engage in continuous professional development through webinars and events, including the JPAG Research and Careers Fair, expanding involvement through ELRIG Drug Discovery and APS PharmSci 2026.