Codie Freeman

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Professional Summary

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

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

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 µg 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

Analytical & Separation: HPLC-MS, GC, NMR (^1H & ^{13}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

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.