**JAKE EMERY**

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**PROFILE**

Biochemistry graduate from The University of Birmingham with a specific interest in the field of research and drug development. Strongly driven individual with excellent attention to detail and analytical skills. Currently working as a Software Test Script Writer for Drug Development Solutions possessing a strong working knowledge of the GxP principles and regulations relating to the validation of computerised systems including 21 CFR Part 11.

**EDUCATION**

**University of Birmingham - BSc Biochemistry Grade: 2:1 Sept 2018 – July 2021**

* Relevant modules include Cancer biology; Topics in medical bioscience; Molecular immunology; Structures of destruction, Genetics.
* Final year project: ‘Identification of new potential sites of interaction between SecA and SecB in bacteria and proposed model of binding.’
  + Used multiple sequence alignment techniques combined with co-variation analysis and molecular modelling and docking.
  + Enhanced my data analysis skills and molecular graphics skills to study proteins.
* Lab experience with a variety of techniques including TLC, spectrophotometry, gel electrophoresis and titrations. Accompanied by lab reports to discuss and explore the results obtained.
* Software experience: “R studio” to analyse data; bioinformatics tool “ORFfinder” to analyse nucleotide sequences and predict functions of genes. Fully proficient with all Microsoft Office software.

**The Crypt Grammar School, Gloucester Sept 2011- July 2018**

**A levels:** Biology (A) Chemistry (B) Psychology (B) **AS Level:** Geography (A)

**GCSEs:** 2 A\*s 4 As 3 Bs 2 Cs - including Maths (A) and English (B) Computing (B)

**EXPERIENCE**

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**Drug Development Solutions – Software Test Script Writer April 2022 – Present**

* Write and execute Test Scripts to robustly test computerised systems meet the defined requires and regulations.
* Prepare additional documentation for computerised systems to support the validation and qualification.
* Able to perform system administration and troubleshoot issues.
* Co-ordinate with Scientists, QA and other members of the CSV team to successfully develop validation documents and execute testing.
* Undertake various courses, training and webinars to continue my development and knowledge in the CSV field.

**Oncologica – NGS Genetic Technologist August 2021- March 2022**

* Promoted to join the NGS team to perform high-throughput sequencing of positive COVID-19 samples.
  + Fully trained in all NGS processes and in this time became senior trainer within NGS.
  + Experience performing DNA purification and qPCR analysis.
* Fully trained in performing RNA extraction of COVID-19 samples in the laboratory and signed off on PCR protocols.
* Experience operating liquid handling machines to process samples.
* Contributed to our team project to streamline extractions in the lab with the development of a new application to replace the current system and provided accompanying reports.

**Sainsbury’s – Customer Assistant Oct 2017 – July 2021**

* Worked within the busy checkout department providing a high standard of service to customers as well as troubleshooting and resolving issues.

**Volunteer Police Cadets**  **Sept** **2014 – Nov 2017**

* Deputy Section Officer of my rank which involved training new recruits, helping with any of their concerns and leading them in various tasks.
* Worked with local police officers in active patrols within the neighbourhood and engaging with the public.

**FURTHER SKILLS**

Data Science applications for Life Sciences. I have recently completed Code Academy courses in key, relevant areas of analytics including:

* + Python fundamentals
* Forthcoming modules:
  + Data handling with SQL
  + Data visualisation and analysis
  + Data Manipulation
  + Machine learning techniques