

# Jack Sleight

## Summary

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I am an R developer and data scientist with over 6 years of experience. My current role as R/R Shiny developer at Audit Scotland involves acting as a lead developer for the design and maintenance of web-based data applications. These are used by a team of auditors for the analysis of financial and performance audit data generated by public sector organisations in Scotland. In my previous role at Fios Genomics I acted as a lead bioinformatic data scientist providing statistical analyses for a range of clients in the pharmaceutical and academic sectors. From my experiences in both the private life science and public audit sectors, I have acquired an array of transferable skills in analysing complex data sets and developing data-centred products.

## Skills

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### Programming

- R
- Python
- SQL
- JavaScript
- Bash

### Bioinformatics

- DNA/RNA sequencing
- ASO design
- Proteomics
- High-throughput screening development

### Data science

- Tidyverse/Tidymodels
- Quarto/RMarkdown
- Shiny/Plotly
- Numpy/Pandas/Matplotlib/Seaborn

### Engineering

- Git
- Docker
- CI/CD
- NextFlow
- Linux
- Azure
- Relational database design

## Experience

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### Audit Scotland, Glasgow

#### R/R Shiny Developer

2025-Present

- I design and maintain web-based data applications using R, SQL and Python that are used by teams of financial and performance auditors to perform a range of analyses. Typical analyses include but are not limited to:
  - Analysis of general ledger and financial statement data.
  - Collation of Audit Scotland parliamentary interaction data.
- I design and maintain data pipelines for extracting, transforming and loading public sector data into structured and semi-structured data sets such as relational databases or JSON file stores, respectively.
- I use Git for version control and develop GitHub pipelines for maintaining code and adhering to continuous integration (CI) and continuous development (CD) practices.
- I am involved in the maintenance of Microsoft Azure services for hosting web-based applications. I lead the development of best practice guidance documentation for R programming at Audit Scotland.

## **Fios Genomics, Edinburgh**

### **Senior Bioinformatics Developer**

2023-2025

- I contributed to an internal codebase using R, SQL, Python and JavaScript that was used by a team of bioinformaticians. Typical analyses included but were not limited to:
  - Critical and confounding factors analysis biological experimental study designs.
  - Analysis of high dimensional data such as gene expression, proteomic or custom array data sets.
  - Hypergeometric and gene-set enrichment testing of biological pathways.
  - Designing personalised allele-specific anti-sense oligonucleotide (ASO).
  - Data mining of public bioinformatic databases.
  - Development of machine learning models for predicting patient drug response using omics data.
- I was involved in the communication of code updates and new features via blog posts and presentations.
- I was responsible for ensuring reproducibility of statistical analyses using tools such as Docker and GitLab CI pipelines.

### **Senior Bioinformatician**

2021-2023

- I acted as a lead bioinformatic data scientist for a range of different statistical analysis projects.
- I provided scientific and technical guidance to junior bioinformaticians.
- I was regularly involved in scoping statistical analysis plans for new and existing clients.

### **Bioinformatician**

2019-2021

- I acted as a junior bioinformatic data scientist, performing statistical analyses for clients in the pharmaceutical and academic sectors.

## **Cancer Research UK Scotland Institute, Glasgow**

### **Laboratory Aide**

2015-2016

- I was part of a large team responsible for preparation of tissue culture solutions and autoclaving of laboratory waste.

## **Education**

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### **University of Glasgow**

#### **Master of Science - Bioinformatics with Distinction with Distinction**

2018-2019

- I was awarded a Scottish Funding Council scholarship based on undergraduate academic performance.

### **University of Strathclyde**

#### **Bachelor of Science - Pharmacology and Biochemistry with First Class**

#### **Honours**

2016-2018

- I was awarded the Biochemical Society prize for academic achievement.

### **University of Glasgow**

#### **Diploma of Higher Education - Medical Science**

2013-2015

#### **Training and teaching**

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- 2025 – I attended the Shiny in Production conference run by Jumping Rivers Ltd.
- 2022 – I completed the Exploring Genetic Variation EMBL-EBL virtual course.
- 2021 – I presented a COVID-19 R Shiny application at the Edinburgh Data Visualisation Meetup
- 2019 – I participated in a study group on “Introduction to Statistical Learning” by James et. al.