

# James Sinclair

DATA ENGINEER & ANALYST

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United Kingdom

## 01 / PROFILE

### Profile

Data engineer and analyst at a UK investment management firm. I build the data pipelines, internal APIs, and analytics tools the investment team uses day to day, and I'm comfortable taking a project from the raw data all the way through to the interface.

## 02 / EXPERIENCE

### Experience

#### Data Analyst - Heavy Data Engineering Focus

2023 - Present  
United Kingdom

McInroy & Wood

- Built the internal decision-making platform now used across the firm's investment team.
- Everything behind it developed by myself. Ingestion pipelines, a normalised data layer, REST APIs, and the front end which let us drop several paid vendor tools totalling £100k saved annually.
- Built the analytics and charting that managers rely on when deciding how client money is allocated.
- Automated reporting that used to be done by hand, cutting turnaround on key reports from days to minutes.
- Work with senior PMs and managers to turn loosely defined investment questions into working internal tools.

Stack Python · Flask · JavaScript · SQL · REST APIs · Pandas · Plotly · Power BI · AWS · Docker · CI/CD

## 03 / SELECTED PROJECTS

### Selected Projects

#### Internal Investment Decision Platform

£100k+ annual cost  
reduction

FULL-STACK · DATA ENGINEERING · ANALYTICS

A full-stack web app that brings live market and portfolio data, analytics, and charts together in one place, built to replace a set of vendor tools the firm had been paying for. I personally developed all of it: the data engineering, the API design, the front end, and deployment.

**Impact** Replaced several paid tools, saving over £100k a year, and it's now where the investment team does most of its client & fund analytics work.

Python · Flask · JavaScript · REST APIs · Plotly · Pandas · PostgreSQL · AWS · Docker

#### Client Performance @ Reporting Tool

5× workflow speedup

ANALYTICS · INTEGRATION

A Python desktop app that brings client portfolios, live market data, and benchmarking into a single window. It pulls from multiple sources; the firm's IMS, Bloomberg, MSCI, and the live CRM behind a tabbed interface with cached pages.

**Impact** Investment managers and analysts use it during client calls; it's made briefing prep around five times quicker.

Python · Tkinter · Pandas · Matplotlib · REST APIs · Bloomberg API · MSCI API

# Drills - Creative Portfolio Site

Delivered in 2 weeks

FRONTEND · FULL-STACK

A multi-page portfolio site I designed and built for Drills, a fashion designer's honours-project collection. Plain HTML/CSS with custom JavaScript animations, plus Netlify CMS so the designer can add new garments and edit copy herself.

**Impact** Built in two weeks, including the garment photoshoot. Because the content runs through a CMS, the designer has kept the site updated since without needing me for further additions.

HTML · CSS · JavaScript · Netlify CMS · Netlify

# Personal Portfolio Site

Bespoke component library

FRONTEND · FULL-STACK

A single-page Next.js 15 portfolio I built as a personal project, partly to see how far I could push the details, and partly as a demonstration of my frontend design. Everything is handbuilt: a canvas particle field, ResizeObserver-driven expansions, and dark/light theming that handles SSR

**Impact** It works as both my portfolio and the demo example itself. There's no component library underneath, each section is written by myself.

Next.js 15 · React 19 · TypeScript · Tailwind CSS · Framer Motion · Lenis

## 04 / EDUCATION

### Education

#### MSc Data Analytics

2022 - 2023

University of Strathclyde

DISTINCTION

#### BSc Business Technology

2018 - 2020

University of the West of Scotland

#### HND Computer Science

2016 - 2018

Glasgow Clyde College

## 05 / SKILLS

### Skills

|                          |                                          |
|--------------------------|------------------------------------------|
| DATA ENGINEERING         | SQL · Pandas · Airflow · PostgreSQL      |
| BACKEND & APIS           | Flask · REST · GraphQL · Auth & RBAC     |
| FRONTEND & VISUALISATION | JavaScript · Plotly · Power BI · Tableau |
| CLOUD & AUTOMATION       | AWS · Azure · Docker · Automation        |
| PROGRAMMING LANGUAGES    | Python · JavaScript · Java · Bash        |

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