

James Sinclair

DATA ENGINEER & ANALYST

james_sinclair.97@outlook.com
linkedin.com/in/jjefferys97
https://jamessinclair.dev/
United Kingdom

01 / PROFILE

Profile

Data engineer and analyst at a UK investment management firm, building production-grade data infrastructure, full-stack analytics platforms, and decision intelligence tools that directly influence capital allocation. Comfortable owning a problem from raw data to polished interface.

02 / EXPERIENCE

Experience

Data Analyst — Heavy Data Engineering Focus

2023 – Present
United Kingdom

Mclnroy & Wood

- Architected and shipped a firm-wide internal investment decision platform now used by every investment manager across the firm.
- Built end-to-end systems – ingestion pipelines, normalised data layers, REST APIs, and front-end interfaces – replacing several costly external vendor tools.
- Engineered analytics and visualisation modules that directly inform multi-million-pound capital allocation decisions.
- Automated previously manual reporting workflows; cut analyst turnaround on key reports from days to minutes.
- Partner with senior PMs and analysts to translate fuzzy investment hypotheses into production-grade data products.

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 bespoke full-stack web application delivering real-time market and portfolio data, advanced analytics, and intuitive visualisations – built from the ground up to replace a stack of external vendor tools. End-to-end ownership: data engineering, API design, front-end implementation, and deployment.

Impact Replaced multiple third-party tools and saved the firm £100k+ annually while becoming the de-facto workspace for investment decision-making.

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

Client Performance & Reporting Tool

5× workflow speedup

ANALYTICS · INTEGRATION

A Python desktop application aggregating client portfolios, live market data, and benchmarking intelligence into a single interactive workspace. Integrates four previously siloed systems – the firm's IMS, Bloomberg, MSCI, and the live customer relationship management database – behind a tabbed interface.

Impact Adopted as the default workspace by investment managers and analysts firm-wide during client calls. Roughly 5× faster client-briefing preparation.

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

Drills — Creative Portfolio Site

Delivered in 2 weeks

FRONTEND · FULL-STACK

A responsive single-page creative portfolio designed and built for Drills — a fashion designer's honours-project collection. Custom JavaScript animations layered over hand-rolled HTML/CSS, with Netlify CMS so the designer can publish new garments and edit copy independently.

Impact Delivered end-to-end in two weeks, including the garment photoshoot. The CMS-first architecture has let the site continue evolving without further developer involvement.

HTML · CSS · JavaScript · Netlify CMS · Netlify

Personal Portfolio Site

Bespoke component library

FRONTEND · FULL-STACK

A single-page Next.js 15 portfolio built solo as a craft exercise in editorial frontend. Every interaction is hand-coded — custom canvas particle field, bespoke SVG radar chart, ResizeObserver-driven expansions, magnetic buttons, smooth scroll, and SSR-safe dark/light theming.

Impact Doubles as portfolio and case study: every animation, interaction, and design decision is open for inspection by the very act of evaluating it. No off-the-shelf component library — every primitive is bespoke.

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

04 / 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

james_sinclair.97@outlook.com · [linkedin.com/in/jjefferys97](https://www.linkedin.com/in/jjefferys97) · <https://jamessinclair.dev/>