



Education

Undergraduate **University of Manchester** | Oxford Rd, Manchester M13 9PL
Sep 2023 - Present BSc Computer Science with Industrial Experience, active member of several societies
Expected first-class Achieved first-class grades of **79%** in the first year, and **76%** in the second year

Studied **programming & paradigms, algorithms & data structures**; committed to pursue further expertise
These modules offered hands-on experience with **Python, Java, C, Rust** and **software engineering** fundamentals

A-levels, GCSEs **Kingston Grammar School** | 70 London Rd, Kingston upon Thames KT2 6PY
Sep 2016 - Jun 2023 Mathematics, Further Mathematics, Computer Science, Physics **A*A*A*A***
Academic scholar EPQ exploring the Generative Adversarial Network **A**, GCSEs **999999999A**

Experience

 **Software engineer** nomura.com | *Java, Python, SQL, Dremio, Apache Iceberg, MinIO, Oracle*
Jun 2025 - Jun 2026 Maintained the trade and risk data warehouse supporting firm-wide analytics
Industrial placement Planned and executed major platform upgrades and core architectural migrations

Collaborated within a **global team of 50** to maintain and modernise a large-scale centralised data warehouse
Replatformed business ETL flow from Oracle to a lakehouse architecture using **Dremio, Iceberg and MinIO**
Delivered critical platform upgrades and **CI/CD pipelines**, increasing build stability and deployment efficiency

 **Court services** wimbledon.com | *Teamwork, Time management*
Jun 2024 - Jul 2024 Dressed and covered grass tennis courts in a team of 6, ready for play
Full time Aided players, staff and spectators for up to 12 hours a day for 2 weeks

 **Repair technician** theitstore.com | *RepairDesk, Product repair, Sales*
May 2022 - Nov 2022 Apple product repairs, customer service, retail sales and advertising
Part time This required knowledge surrounding Apple's product line and new releases

 **Software engineer** goldclipper.co.uk | *Oracle APEX, Oracle Database, PL/SQL*
Jun 2021 - Jul 2021 Use of Oracle Application Express software to develop an internal use application
Internship The application tracked 6 employee timesheets and calculated required payslips

Projects

FDAT github.com/jameskeywood/FDAT | *Python, PyIceberg, DuckDB, FastAPI*
Apr 2026 - Present Data analysis platform aggregating market data and news with sentiment analysis
Personal Orchestrated a modular ETL pipeline to ingest, normalise and serve available data

NixOS systems github.com/jameskeywood/nixos-hp | *NixOS, Linux, System Administration*
Aug 2024 - Present Built and maintained 2 NixOS machines using entirely declarative configurations
Personal Configured a workstation environment and self-hosted server with network storage

Tig github.com/noahgitsham/tig | *Go, Gin, HTML/CSS/JS*
Nov 2024 - Nov 2024 Git companion tool for developers to track and visualise files alongside commits
Hackathon Built the CLI with Go and a custom algorithm to view Git repositories in 24 hours

Ninja Fruit jameskeywood.itch.io/ninjafruit | *Unity, C#*
Jul 2023 - Jul 2023 Game created within 48 hours, leading a team of 2 others as the sole programmer
Game jam Players throw fruit at enemies to survive and progress through 3 challenging levels