

Timothy Aison

BI & Analytics Engineer specialising in semantic modelling, data architecture, and AI-enabled data systems. Designs structured data layers and scalable reporting frameworks, transforming raw data into governed, reusable models for human and programmatic access. Applies software engineering principles to analytics environments to ensure consistency, scalability, and maintainability.

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WORK EXPERIENCE

Tugger Ltd

BI Product Developer

Aug 2025 - Present

- Architected centralised semantic layers (“Golden Models”), improving consistency, maintainability, and report performance across datasets
- Designed and prototyped an AI-enabled semantic query layer, exposing governed metrics via API-driven SQL generation for consistent, accurate querying
- Engineered structured transformation layers (DuckDB + SQL), standardising raw data into scalable fact/dimension models (star/galaxy schema)
- Owned end-to-end BI and data solution delivery in a 12-person company, supporting multiple client projects end-to-end
- Delivered technical webinars on advanced data modelling and Power BI architecture, improving client capability and adoption
- Designed and prototyped a Python Dash-based reporting layer, enabling dynamic, programmatic access to structured data beyond traditional BI tools

Adelphi Real World

Data Processing Analyst

Sep 2023 - Aug 2025

- Standardised data processing and validation workflows, improving consistency and data quality
- Built end-to-end data pipelines, integrating APIs, SQL databases, and reporting layers to deliver actionable insights
- Development Lead for an 8-person team, coordinating technical delivery, improving processes, and implementing Agile workflows
- Led sprint reviews, Python training, and internal knowledge transfer to improve team capability
- Automated data ingestion and processing from SFTP using Python/VBS, including validation, anomaly detection, and quality control

EDUCATION

University of Birmingham

BSc Liberal Arts and Sciences (Physics) - First-class Honours

Sep 2018 – Jul 2023

- Independent Research Project combining data collection, stakeholder interaction, and interdisciplinary analysis across social sciences and STEM
- Physics major: core physics and mathematics modules.

Hebrew University of Jerusalem in Israel

Year Abroad (Statistics, Hebrew, Philosophy)

Aug 2021 - Aug 2022

Department for Education

Future Teaching Scholars (Physics/Maths Teacher Training)

Sep 2019 - Jul 2023

SKILLS

- Data Engineering: SQL, data transformation, API integration, ETL pipelines
- Data Modelling: Star schema, galaxy schema, dimensional modelling
- Architecture: Centralised semantic layer design, scalable reporting systems
- Programming: Python (data processing, automation)
- BI & Analytics: Power BI, DAX (semantic models, reporting layer)
- Tools: GitHub, Azure DevOps