

Alfie Joseph Rees

Economics, Entrepreneurship & Data Science | Data analytics & modelling
Herzliya, Israel | alfiejrees1@gmail.com | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

EDUCATION

Reichman University

BSc Economics, Entrepreneurship & Data Science

Herzliya, Israel

Oct 2024 – Jun 2027

- GPA 92 | Merit scholarship | Honors programme, an interdisciplinary cohort in entrepreneurship, innovation and leadership

- **Modules:** Econometrics | Machine Learning | Statistics | Data Analysis | Python | SQL | R | Financial Management

City, University of London

BSc Mathematics with Economics & Finance (transferred)

London, UK

Sep 2023 – Jun 2024

- Linear algebra | Quantitative reasoning | Introduction to modelling | Functions, vectors & calculus

Brampton College

A-Levels

London, UK

Sep 2019 – Jun 2021

- Mathematics (A*) | Economics (A) | Psychology (A)

WORK EXPERIENCE

Shelley Company

Financial Analyst

London, UK

Aug 2023

- Built a 1-year cash-flow and scenario forecast in Excel projecting ~£700k revenue under multiple demand cases; the model became the basis for that year's budgeting decisions
- Pushed back on the CEO's initial pricing assumptions with market-comparable evidence, producing a revised pricing and equipment plan worth a 15–20% margin improvement

King Solomon School

Business & Mathematics Teacher (IGCSE / AS)

Kfar Saba, Israel

Dec 2024 – Jun 2026

- Taught IGCSE Business Studies to four 16-year-olds (~6 hrs/week) from my own lesson plans and mock papers
- Invited back for a second year, on the students' feedback, to teach them AS-Level Mathematics and Business Studies

London Beit Mechina

Mathematics & Economics Teacher (A-Level)

London, UK

Sep 2023 – Jul 2024

- Supported A-Level Maths and Economics classes (12 students, ~8 hrs/week); students rose two grades on average

PROJECTS

[Premier League Pricing Model \("OddsLab"\)](#)

Data Science capstone, Reichman University

Herzliya, Israel

Mar 2026 – Aug 2026

- Acquired and consolidated 9,120 matches across 24 seasons (2000–2026) by ingesting per-season CSVs from a primary public source into a single analysis-ready database
- Enforced data cleanliness before modelling: dropped the 9 pre-2009 seasons lacking odds coverage rather than imputing, de-duplicated fixtures, reconciled team names, and used time-ordered splits to prevent look-ahead leakage
- Engineered 20 features (rolling 5-match form, season-to-date points per game, head-to-head history and vig-normalised implied probabilities) in pandas / NumPy, modelling Home/Draw/Away in scikit-learn with statsmodels for diagnostics
- Reached 56.7% held-out accuracy against the bookmakers' 56.4% on the same games and a 43.5% always-home baseline, and turned the output into a team-level risk segmentation a stakeholder could act on

[Under Fire](#)

Public data-visualisation tool | self-initiated

Herzliya, Israel

Apr 2026 – Present

- Owned the full pipeline for a six-year alert dataset across Israel: ingestion, cleaning, de-duplication and validation of a messy time-series source with a live API feed, using alerts as a proxy where the underlying data was not public
- Deployed and maintained it in production at under-fire.org, serving a continuously updating public dataset to 500+ visitors

Local Flow

Fully-local macOS dictation app | Python, MLX, SQLite

Herzliya, Israel

Apr 2026 – Present

- Built an on-device replacement for a \$15/month cloud product: local ASR inference, a validated LLM cleanup pass and SQLite history, with 477 passing tests; diagnosed a CoreAudio deadlock from a process sample and re-architected recording teardown around it

Selected builds

Designed, shipped and supported

Herzliya, Israel

- [What Came After](#): podcast platform for a paying client (Next.js 16 + Sanity); 80+ RSS-driven pages, 20+ daily visitors
- [IDC Revision](#): Astro study platform on a tested content pipeline; used by ~40 classmates, 500+ users in 30 days

SKILLS

- **Data & analysis:** Python (pandas, NumPy, scikit-learn, statsmodels) | SQL | R | Excel | regression analysis | EDA & validation
- **Engineering:** Git | SQLite | automated testing | data pipeline design | Next.js | Astro | Vercel | Cloudflare
- **AI:** Claude Code | Codex | agentic workflow design | local LLM inference | Loop engineering | RAG | LangChain

ADDITIONAL INFORMATION

Languages: English (native) | Hebrew (conversational)

Certifications: Google Prompting Essentials

Achievements: UKMT Intermediate Mathematical Challenge, Gold Award (top ~7% nationally)

Interests: Pickleball | Backgammon | Marathon training | Travel