David Roast

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Portfolio

Personal Profile

Data-focused software engineer with four years of industry experience working with user data, SQL, and analytics tools to generate insights and support business decisions. Strong foundation in statistics and mathematics with experience building dashboards, analysing datasets, and communicating findings to non-technical teams. Passionate about data-driven decision-making and developing analytical solutions to complex problems.

Education and IT Training

Aug/2021-Nov/2021	**Just IT Training Ltd, London** **Digital Skills Bootcamp: Software Development** A twelve-week intensive boot camp covering the fundamentals of Web and Software development.
Sep/2016-Jul/2019	**University of Bath, Bath, Somerset, BA2 7AY** **Mathematics and Statistics**
Core Modules:	Pure and Applied Mathematics, Statistics, Computer Science
Languages:	Matlab, R
Project:	Data modelling of Transport Infrastructure Usage.
Sep/2014-Jul/2016	**Mayflower High School, Billericay, Essex, CM12 0RT**
A Level:	Mathematics(A*) Further Mathematics(A) Statistics(A) Physics(C)
Sep/2009-Jul/2014	**Mayflower High School, Billericay, Essex, CM12 0RT**
GCSE:	(10) A*-C grades in subjects including Maths and English

Certifications

- **Google Data Analytics Professional Certificate (Google Career Certificates) (2025):** Developed practical skills in data cleaning, analysis, and visualisation using SQL, R, and Tableau. Applied data quality and governance principles, including data validation, consistency checks, and ethical data handling. Completed end-to-end analysis projects, transforming raw datasets into structured insights and communicating findings through dashboards and reports.

IT Skills

Development Skills: Python, R, Js
Data & Analytics Tools: Power BI (DAX, Power Query), Tableau, SQL, PostgreSQL, MySQL, Pandas, NumPy
AI & Productivity: Claude, ChatGPT
Web Technology: HTML5, CSS3
Other Software: Jira, DataGrip, Forest Admin, HubSpot

Projects

- **UK House Price Index Dashboard (Power BI)**
  Developed an interactive data analytics dashboard analysing regional housing trends across the UK using Power BI. Designed a relational data model integrating multiple datasets, including regional house prices and property types.
  Performed data cleaning and transformation using Power Query, standardising date formats and aggregating monthly housing metrics.
  Created custom DAX measures to calculate year-on-year price changes and regional comparisons.
  Built interactive visualisations enabling exploration of regional affordability trends and market shifts over time.
  Produced analytical summaries identifying patterns in property price growth across UK regions.
- **Airbnb Data Analysis Project (Tableau)**
  Utilized Python and Tableau to perform in-depth data analysis and mathematical modeling to estimate Airbnb prices. Highlighted actionable insights and developed statistical models for accuracy prediction. This project reinforced my ability to manipulate large datasets and create data-driven solutions.
- **Encrypter/Decrypter Application**
  Developed a secure encryption and decryption tool using Python. Implemented one-time pad and password-based encryption methods to handle sensitive text files. This project showcased my ability to build reliable tools focusing on security protocols.

Employment History and Work Experience

Junior Software Engineer
GoJoe App Limited, Mar 2022 – Present

- Analyse large user datasets using SQL to generate statistics, performance metrics, and demographic insights supporting product and business decisions.
- Communicated complex technical concepts and the impact of new technologies to non-technical teams, enabling informed business decisions.
- Contributed to software application updates, focusing on performance improvements and feature development using JavaScript.
- Leveraged Claude to support data analysis, SQL query development, validation of analytical approaches, and the translation of technical insights into clear business recommendations.
- Designed and implemented an internal analytics platform using SQL-derived behavioural metrics to identify unusual user activity patterns and support data-driven investigation and decision-making.

Catering Assistant
John Lewis & Partners, Sep 2019 – Jul 2021

- Showed commitment during the pandemic by volunteering for redeployment to Waitrose, and contributing to essential services during night shifts.

Interests

I enjoy building PCs from scratch, combining technical skills with creativity. I'm an avid chess player, both online and over the board, and I have a passion for solving puzzles like jigsaws and Rubik's cubes. Traveling is another interest of mine, particularly exploring vibrant big cities and historical or cultural landmarks.

Additional Info:

References available upon request