

TOM CUTLER

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Mathematics graduate with strong programming and problem-solving skills. Experienced in Python, data analysis, and game development. Proficient in building software solutions, automating processes, and optimizing performance. Seeking opportunities in data science, game development, or software development.

NOTABLE PROJECTS

Finance Data Automation System

- Developed a suite of Python scripts to automate income, expense, and invoice processing, integrating data from emails, CSV files, and Excel workbooks.
- Automated data entry, file organisation, and report generation, improving accuracy and reducing manual effort in financial record-keeping.

2D Puzzle Game Development

- Developed a Sokoban-style puzzle game in Python, implementing core game mechanics, user input handling, animation, shaders, and a level editor all without a game engine.
- Gained experience in game development, asset management, data and file handling, debugging techniques, and performance optimization.

Undergraduate Group Project: *'Big Data' – Grade 92%*

- Developed, as part of a team, a MATLAB program for large-scale data analysis, including k-means clustering and regression modelling, with an emphasis on tracking any additional data generated during processing.

COMPUTER SKILLS

- Python - Very strong coding skills, acquired through a wide range of projects including data analysis/ visualisation, image recognition and game development.
- Version Control (Git, GitHub) - Experience using Git for tracking changes, managing branches, and collaborating on projects through GitHub repositories.
- SQL - Proficient in SQL for querying, data manipulation, and database management.
- Excel - Familiar with the use of formulas, functions, pivot tables, and lookups for simple data analysis and visualization.
- Power BI - Experience with features such as power queries, joins, and DAX calculations to build insightful dashboards and reports.
- Tableau - Basic understanding of creating charts, filters, and interactive dashboards.
- R - Basic experience using R for data analysis and visualisation, including data cleaning, creating plots, and running statistical tests.
- MATLAB - Designed, modelled and investigated many complex mathematical and biological systems in order to study the effects of certain processes.
- LaTeX - Produced many high-quality scientific documents for project reports and presentations.

EDUCATION

- MSc in Mathematical Modelling, *University of Birmingham* 2017 – 2018
- Classification: Merit
 - Key Modules: Modelling with Partial Differential Equations, Continuum Mechanics, Mathematical Biology, and Research Frontiers in Applied Mathematics
- BSc (Hons) in Mathematics, *University of Derby* 2014 – 2017
- Classification: Second class upper division (2:1)
 - Key Modules: Statistical Methods, Optimisation Techniques, Non-Linear System Dynamics, and Modelling with Differential Equations
- A-levels, *Stoke Park 6th Form, Coventry* 2012 – 2014
- Maths (B), Further Maths (C), Physics (D)
- GCSEs, *Stoke Park School, Coventry* 2007 – 2012
- 8 GCSEs, A* to C including Maths and English

EXPERIENCE

- Test Centre Assistant, *Act Training, Coventry* May 2025 – Present
- Duties include opening and preparing the test centre, admitting candidates and monitoring exam sessions, while maintaining a calm and professional environment.
 - Troubleshoot IT-related issues on-site, including system errors, network connectivity problems, and hardware malfunctions, to ensure minimal disruption to users.
- Self-employed Courier, *Yodel, Coventry* October 2021 – February 2025
- Delivered 100+ parcels daily, six days a week as standard, with great efficiency and care, ensuring excellent customer service.
 - Self managed workload and vehicle maintenance and also handled self assessment tax returns, developing financial management.
- School General Assistant, *Bablake, Coventry* March 2021 – September 2021
- Worked in various roles, including exam invigilator and COVID-19 tester, requiring attention to detail and great personal skills.
 - Assisted in a large-scale IT project to rebuild and install all existing school devices onto a new network, improving system efficiency while ensuring proper configuration and testing.
- Bar Staff, *Copsewood Sports & Social Club, Coventry* November 2018 – July 2021

CERTIFICATIONS

- Data+, *CompTIA* May 2025
- Entry-level data analytics certification that covers how to collect, analyse, and interpret data to support business decisions.

PERSONAL

Full driving license.

Interests include sports, programming, video games, music, films, and cooking.

REFERENCES

References are available on request.