

# THOMAS CUTLER

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Address: 11 South Avenue, Coventry, CV2 4DQ  
Mobile: 07930 404 360  
Email: tcutler96@hotmail.com  
LinkedIn: <https://www.linkedin.com/in/tcutler96/>  
GitHub: <https://github.com/tcutler96/PuzzleGame>

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

### Self-employed Income & Expenses Automation

- Developed a Python-based system to automate income and expense tracking to simplify the process of self assessment tax return filing.
- Extracted data from emails and invoices, cleaned and structured it, and generated reports in Excel for easy reference.

### 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.