

# THOMAS CUTLER

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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, <i>University of Birmingham</i>   | 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, <i>University of Derby</i>  | 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, <i>Stoke Park 6th Form, Coventry</i>   | 2012 – 2014 |
| • Maths (B), Further Maths (C), Physics (D)  |             |
| GCSEs, <i>Stoke Park School, Coventry</i>  | 2007 – 2012 |
| • 8 GCSEs, A* to C including Maths and English   |             |

## **EXPERIENCE**

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|--|------------------------------|
| Test Centre Assistant, <i>Act Training, Coventry</i>   | 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, <i>Yodel, Coventry</i>  | 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, <i>Bablake, Coventry</i>   | 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, <i>Copsewood Sports &amp; Social Club, Coventry</i>   | November 2018 – July 2021    |

## **CERTIFICATIONS**

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|---|----------|
| Data+, <i>CompTIA</i>   | 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.