

# TOM FLATTERY

07423 224120

flatterythomas48@gmail.com

mxcury.github.io

LinkedIn: tom-flattery-5775b9249

## Personal Profile

I have just started my second year at The University of Nottingham studying Computer Science with Artificial Intelligence. I have an interest in simulations such as cellular automata and artificial intelligence and machine learning. I have experience in a leadership role as a ranked corporal in the Combined Cadet Force (CCF).

## Education

### University of Nottingham

2021 - Present

*BSc (Hons) Computer Science and Artificial Intelligence with Year in Industry*

I have studied programming and algorithms achieving a high grade, enhancing my problem solving and decision-making skills. It also improved my knowledge of the C programming language. I was also able to utilise the other software when developing in C such as GCC and Valgrind.

I also achieved highly in my Systems and Architecture module programming in the ARM assembly language, this was demonstrated by making the "Minesweeper" game in ARM. I also studied CPU architecture such as multi-processing and parallel processing.

During the Introduction into Software Engineering, I was part of group and explored the software development life cycle specifically specification, development, testing, and evolution. A continuous integration and development pipeline was set up using Git and GitLab, employing version control using branches.

Through my Fundamentals of Artificial Intelligence module, I gained experience with NumPy, Matplotlib, and pandas and their machine learning capability and the processing of big data. I was able to quickly learn and led myself to further explore this area of interest and produce a Generative Adversarial Network and Convolutional Network.

### The King's School Chester

2014 - 2021

A-Levels: Maths (A), Computer Science (A), Physics (B)

GCSEs: 11 GCSEs, 9-7 in 9 subjects with A in Further Maths (9 in Maths, 8 in English Literature and Language)

## Technical Skills

Through personal projects and university modules I have become more proficient in Python with basic knowledge of NumPy, Matplotlib, scikit-learn, pandas and TensorFlow. I have made some projects using C and C++ such as a wordsearch generator. Using Git such as GitHub and GitLab allows me to further my aptitude for version control. I have practice in full-stack development when displaying my portfolio such as HTML, CSS, JavaScript, and MySQL. My main area of expertise is with Java with OOP concepts and experience with the Junit library. I also have knowledge of Haskell, ARM Assembly, Swift, Lua, and Linux.

## Work Experience

*Production Operative, Bakkavor Bread Aston*

*June - August 2022*

In this role, I was responsible for quality assurance of the production line for a multinational food company. I had to learn a new set of skills very quickly and was able to work efficiently and effectively in a fast-paced and unfamiliar environment.

*Kiltearn Medical Centre, (Admin support) Data Handling*

*2019 - 2020*

In this position I was processing confidential data using NHS software as well as digitizing records. Prior to the pandemic my role also included front of house reception on Saturday mornings.

## Extracurricular

*Esports Captain, University of Nottingham*

*2021 - 2022*

As captain, I was responsible for communicating team tactics and any administrative tasks that needed to be completed for the tournaments we would be competing in. With this role in the team, I had to take responsibility for the team but also lead the team and work alongside them to progress further through the competitions.

*Physics Prefect, The King's School Chester*

*2020 - 2021*

During this activity, I accompanied the physics staff with setting up equipment for lab activities and helping my peers with any issues they may face. Through this role, I was able to communicate more effectively with my peers and staff.

*Computer Science Mentor, The King's School Chester*

*2019 - 2021*

Being a computer science mentor entailed, assisting computer science staff, and aiding younger years in computing club and answering any questions they may have. This taught to be responsible for my time, managing my studies with mentorship.

*Ranked Corporal, King's Chester CCF*

*2015 - 2021*

As a ranked corporal in my school's combined cadet force, I had the responsibility of instructing the younger years of the force, this taught me not only to be a productive and effective team member. It also allowed me to take personal responsibility and to listen attentively to the needs of others. I also adapted to be more organised and efficient with my time to manage my agenda to be more productive.

## Achievements

I have completed both Bronze and Silver Duke of Edinburgh and I am in the process of completing my Gold. I also have an Arkwright engineering scholarship for my efforts in Unmanned Aerial Vehicle construction. In addition, I have a cyber security qualification awarded from the CyberFirst scheme from GCHQ.

I also made numerous personal projects like a Convolution Neural Network on the EMNIST dataset in Java and a custom programming language using Python.