

# Joseph Heyes

A determined and enthusiastic student, keen to learn new skills and develop existing ones.  
Looking for a year in industry placement.

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## Education

### University of Nottingham

BSc Computer Science with Year in Industry | 2021-Present

First year grade: **74%**

Module	Skills/Information learned	Grade
Computer Fundamentals	Digital logic, low-level networking (socket programming in C), operating systems	<b>95%</b>
Programming and Algorithms	Programming in C – basic data structures (arrays, linked lists, stacks and queues), dynamic memory allocation, implementing sorting algorithms (merge, insertion) and postfix mathematical notation evaluation.	<b>84%</b>
Introduction to Software Engineering	Version control with Git, developing software effectively as a team, requirements gathering/specifications, prototyping, unit testing and test-driven development, release and acceptance testing, agile vs traditional software methodologies, risk management.	<b>70%</b>
Programming Paradigms	Object-oriented programming in Java – aggregation, design patterns, inheritance, polymorphism. Functional programming in Haskell – types and classes, types of functions (recursive, higher order), lazy evaluation.	<b>70%</b>

Not all modules shown. For a list of all modules, visit

<https://www.nottingham.ac.uk/ugstudy/course/Computer-Science-with-Year-in-Industry-BSc#yearsmodules>

### The Nobel School

A Levels | 2019-2021

Computer Science: A\*, Mathematics: A, Spanish: A\*

GCSEs | 2017-2019

Computer Science: 7, Mathematics: 8, Spanish: 9, English Language: 8, English Literature: 8, Combined Science: 8-8, History: 9, Drama: 7, Religious Studies: 9

## Technical Skills

- Java (including JUnit)
  - Learned as part of university module, built a version of Reversi using Swing UI.
  - Learned JUnit as part of another module, created unit tests for several Java classes.
- Python
  - Learned basics in secondary school, built my 1<sup>st</sup> project using it in A Level.
  - Learned basic neural networks as part of university module with Python libraries.
- C
  - Learned as part of university module and applied to many basic algorithms.
- HTML/CSS/JavaScript
  - Learned basics in secondary school, now expanding upon by working on my personal website (see top of first page).
- SQL
  - Learned basics in secondary school, expanded upon in university module to create database for a website.

Additionally, some experience with Linux after using Ubuntu as a daily driver for my first year of university.

## Previous Employment

### **Budgens Great Ashby, Stevenage**

Shop Assistant | 2019-2021 | Part-time

Dealt with sales on tills and working with stock (taking stock from warehouse to shop floor, assisting with deliveries).

### **Costello's Café, Stevenage**

Customer Assistant/Server | Summer 2022 | Part-time

Took orders at till, served drinks and confectionary, brought hot food orders to customers when ready and assisted with closing at the end of the day (cleaning, locking up, shutting down machines).

## Hobbies and Interests

- Solving programming problems (alone or with friends)
- Reading about medieval history
- Playing guitar
- Gaming