

# Sam Robert Whitehead

<https://github.com/Ytrewq13>

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Currently in my second year studying Computer Science at the University of Nottingham. Interested in all aspects of software development, with particular interest in system administration and writing performant, efficient code through various optimisations.

## Education

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### University of Nottingham

**2018-09 – current**

Degree: MSci Computer Science

First year grade: First

- Experience implementing various algorithms and data structures in C.
- Modules so far include:
  - Object Oriented Programming
  - Functional Programming (Haskell)
  - Software Engineering Methods

### NEW College Pontefract

**2016-09 – 2018-07**

#### A Levels

Subject	Exam Board	AS/A2	Grade
Mathematics	AQA	A2	A*
Further Mathematics	AQA	A2	A
Computer Science	OCR	A2	A
Physics	AQA	AS	A

### Kettlethorpe High School

Achieved 10 GCSEs, including 5 A\* grades and 5 A grades.

## Experiences

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### Work Experience – NEW College Pontefract

**2015-07**

IT Assistant – 2 weeks

### Personal Programming Projects

- Mandelbrot generator in C <https://github.com/ytrewq13/mandelbrotc>
- Heapsort in C <https://github.com/ytrewq13/heapsort>
- Rubik's cube timer in Java A Level Coursework <https://github.com/ytrewq13/cubetimerapplicationjavafx>
- Maze generator and solver in Java and Javascript <https://github.com/ytrewq13/mazemaker>
- Bouncing ball physics simulation in Javascript <https://github.com/ytrewq13/javascript-bouncing-balls>
- Genetic algorithm example program in Python and Javascript <https://github.com/ytrewq13/wordevolution>

## Programming Languages

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### Very comfortable with

C, Java, Python, Javascript, Bash, L<sup>A</sup>T<sub>E</sub>X

### Working familiarity

PHP, Lua, C#, Vimscript, Groff (MS macros, EQN, REF), awk, sed, Perl, Haskell, SQL, FORTRAN