

Sam Robert Whitehead

<https://github.com/Ytrewq13>

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Currently in my third 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

University of Nottingham

2018-09 – current

Degree: MSci Computer Science

First year grade: First
Second year grade: First

- Experience implementing various algorithms and data structures in C.
- Modules so far include:
 - Object Oriented Programming
 - Functional Programming (Haskell) - Fundamentals & Advanced Techniques
 - Software Engineering Group Project
- Can provide a comprehensive list of modules upon request (including grades)

NEW College Pontefract

2016-09 – 2018-07

A Levels

Achieved 3 A Levels, with grades A*AA (can provide details upon request).

Kettlethorpe High School

2011-09 – 2016-07

Achieved 10 GCSEs, including 5 A* grades and 5 A grades (can provide details upon request).

Experiences

Personal Programming Projects

Project description

[https://github.com/Ytrewq13/...](https://github.com/Ytrewq13/)

- Mandelbrot generator in C [mandelbrotc.git](#)
- Heapsort in C [heapsort.git](#)
- Rubik's cube timer in Java (A Level Coursework) [cubetimerapplicationjavafx.git](#)
- Maze generator and solver in Java and Javascript [mazemaker.git](#)
- Bouncing ball physics simulation in Javascript [javascript-bouncing-balls.git](#)
- Genetic algorithm example program in Python and Javascript [wordevolution.git](#)

Programming Languages

Very comfortable with

C, Java, Python, Javascript, Bash, \LaTeX

Working familiarity

C++, R (ggplot2), PHP, Lua, C#, Vimscript, Groff (MS macros, EQN, REF), AWK, SED, Perl, Haskell, SQL