Sam Robert Whitehead

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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. Experienced with C, Java, and Python, with a growing knowledge of Bash scripting and GNU/Unix utilities. Currently researching Linux From Scratch (LFS) with an aim of compiling an Operating System for a home media server which will also act as a NAS.

Education

University of Nottingham   2018-09 − current

Degree: MSci Computer Science   First year grade: First

- Experience implementing various algorithms and data structures in C.
- Using tools to assist in development of C code.
- 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

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`
- Brainf**k interpreter in C — `https://github.com/ytrewq13/brainfuck`
- 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

Most familiar with

C, Java, Python, Javascript, Bash, LaTeX

Used at least once

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