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 include: *Object Oriented Programming*, Functional Programming (Haskell), *Compiler design* and implementation.

NEW College Pontefract   2016-09 − 2018-07

A Levels

Achieved 3 A Levels, with grades A*AA.

Experience

Teamwork experience

Student Exec Treasurer at NEW College Pontefract   2017-09 − 2018-07

Tracked Student Exec funding for the year, and *allocated budget* to Exec projects.

Software Engineering Group project − designated *gitmaster*   2019-09 − 2020-06

- Organised the *git* repository for the project's source code - Advanced *version control*.
- Managed the ideas of a *diverse group* of people to create a *cohesive software solution* to an *industry challenge*.

Personal Programming Projects

Project description	https://github.com/Ytrewq13/...
Mandelbrot generator in C *Libpng* for storing images, *complex arithmetic* and *multithreading* in C.	mandelbrotc.git
Maze generator and solver in Java and Javascript *Optimisation* of Javascript rendering code, *A* search* algorithm.	mazemaker.git
WebP image loader in C (extension of sxiv image viewer) Learned *Google's WebP API* and sxiv's *pre-existing codebase* to solve a *real-world problem* with an *open-source software project*.	sxiv.git

Programming Languages

C, Bash, Haskell, Python, LaTeX, Makefile, CMake, R (ggplot2), AWK, SED, Vimscript, Groff (MS macros, EQN, REF), C++, Perl, SQL, Javascript, Java, Lua, PHP, C#, Agda, Coq, …

Languages

- English (Native speaker)
- Chinese - Mandarin (Learning)