Sam Robert Whitehead

https://github.com/Ytrewq13

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Currently in my fourth year studying Computer Science at the University of Nottingham. Interested in all aspects of software development, with particular interest in system administration and operating system design.

Education

University of Nottingham

2018-09 - current

Degree: MSci Computer Science

First year grade: First Second year grade: First Third 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*

 $2019 \hbox{--} 09 - 2020 \hbox{--} 06$

- 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
 Libpnq for storing images, complex arithmetic and multithreading in C.

mandelbrotc.git
mazemaker.git

• Maze generator and solver in Java and Javascript Optimisation of Javascript rendering code, A^* search algorithm.

• 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.

Programming Languages

C, Bash, Haskell, Python, LATEX, R (ggplot2), AWK, SED, VimL, Groff, C++, Perl, SQL, Javascript, Java, Lua, PHP, C#, Agda, Coq, ...

Technologies

Vim, Linux, Git, SSH, Clang/LLVM, CMake, Systemd, GDB, Ansible, ARM architectures, Make, Email (postfix, dovecot, OpenDKIM), ...