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 implemen-

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 Libping 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

• Major *contributor* to nsxiv (Revival of image viewer sxiv). sxiv.git Implemented loading for animated WebP images. 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, IATEX, R (ggplot2), AWK, SED, VimL, Groff, C++, Perl, SQL, Javascript, Java, Lua, PHP, C#, Agda, Coq, ...

Technologies

Vim, Linux, Git, SSH, Systemd, Clang/LLVM, CMake, GDB, Ansible, Proxmox Virtual Environment, QEMU/KVM, ZFS, ARM architectures, Make, Email (postfix, dovecot, OpenDKIM), ...