

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*

2019-09 – 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 [mandelbrotc.git](#)
- *Libpng* for storing images, *complex arithmetic* and *multithreading* in C.
- Maze generator and solver in Java and Javascript [mazemaker.git](#)
- *Optimisation* of Javascript rendering code, *A* search* algorithm.
- 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, \LaTeX , 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), ...

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我现在就读于诺丁汉大学，是一名大四的学生，主要学习软件开发和编程。

教育

诺丁汉大学

2018 年 09 月 — 现在

学士，专业：计算机科学

大学一年级: Distinction
大学二年级: Distinction
大学三年级: Distinction

- 各种算法和数据结构 (C 语言).
- 课程: 面向对象编程, 功能编程 (Haskell) – 基本面和先进的技术, 软件工程小组项目, 编译器设计

新大学 Pontefract

2016 年 09 月 — 2018 年 07 月

A Levels

实现了 3 个 A-Level, 成绩是 A*AA

经历

团队合作经验

新大学 Pontefract 的学生主管司库

2017 年 09 月 – 2018 年 07 月

跟踪了年度支出 为项目分配了预算

软件工程小组项目 – 版本控制主管

2019 年 09 月 – 2020 年 06 月

- 为该项目的git存储库进行了组织源代码-高级版本控制。
- 管理了一个多样化群体的想法, 创建一个内聚软件解决方案 行业挑战。

个人编项目

项目介绍

- 曼的布罗特渲染器的 C
Libpng用于在 C 中存储图像, 复杂的算术和多线程
- 迷宫发生器和求解器的 Java 和 Javascript
JavaScript 呈现功能的优化, A * 搜索算法

<https://github.com/Ytrewq13/...>
[mandelbrotc.git](#)

[mazemaker.git](#)

编程语言

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

技术

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