Frazer Mills

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EDUCATION

University of Nottingham | September 2023 - Present
- Computer Science BSc (Hons)
- Autumn Modules: Systems and Architecture, Programming and Algorithms, Computer Fundamentals, Mathematics for Computer Scientists I

The Thomas Hardye School, Dorchester, Dorset | September 2018 - August 2023
- A Levels (Maths, Computer Science, Further Maths, Physics)   AABC
- EPQ on Compilers   A
- GCSEs   999999999887
- HPQ on AI   A*
- Awards: Imperial Stem Potential, Isaac Stem Smart, Exeter Scholar, CyberFirst Advanced and Futures

PROFESSIONAL EXPERIENCE

National Cyber Security Centre, GCHQ | CyberFirst Advanced Programme | *Remote*   July 2022 - August 2022
- Lead team to win the Capture the Flag tournament
- Achieved highest individual score in number of tickets completed (out of over 130 students)
- Learnt about (with practical experience): Cryptography, Penetration Testing, Virtualisation, Vulnerability Detection

HackNotts 84 | Team Leader | *University of Nottingham*   November 2023
- Lead team to create a retro themed programming language (named c--) with a terminal emulator and text editor
- Wrote the the Tokeniser, Lexer, Abstract Syntax Tree generator, and Parser for the language in C++ from scratch
- Presented the project to the committee

National Citizen Service | Volunteer | *Weymouth, Dorset*   August 2021
- Coordinated poster distribution, I went door to door and convinced 40 different local businesses to display a poster in their store
- Worked in a team to interview and take quotes from the Veterans for the posters
- Our team project focused on helping Veterans by raising awareness of their issues withing the wider community

EXTRACURRICULAR ACTIVITIES

Programming Club | Leader | *Thomas Hardye School*   September 2021 - June 2023
- Taught 7 students how to program in Python as well as libraries such as PyGame, NumPy, and SymPy
- Explained how my programming projects worked, such as Thermal and Gravitational Physics Simulations, an interpreter, and various games

Business & Entrepreneurship Society | Member | *University of Nottingham*   September 2023 - Present
- Attended CV workshop to improve my CV and learn about the standards on how they should be written
- Went to a presentation by startup founder who gave advice on entrepreneurship

HackSoc | Member | *University of Nottingham*   September 2023 - Present
- Attended a talk on the making of Computerphile YouTube channel by its creators, I learnt about how the videos were produced and how topics were explained in them
- Went to a talk on how programming languages are designed and created, which inspired me to create my own programming language as a hackathon project

ADDITIONAL INFORMATION

Certificates | Senior Maths Challenge Silver, UK Linguistics Olympiad Bronze, Senior Physics Challenge Ruby Award
Technical Skills | Python, C/C++, ARM Assembly, JavaScript, SQL, Unix/Unix-like (Linux and OpenBSD), vim, emacs
Interests | Calisthenics, Chess, Compilers, Formula 1, Walking, Makoto Shinkai films