

Frazer Mills

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EDUCATION

University of Nottingham | September 2023 - Present

- Computer Science BSc (Hons)
- First Year (78%): Computer Fundamentals (95%), Systems and Architecture (91%), Programming and Algorithms (82%), Intro to Software Engineering (81%)

The Thomas Hardy School, Dorchester, Dorset | September 2018 - August 2023

- A Levels (Maths, Computer Science, Further Maths, Physics) AABC
- EPQ on Compilers A
- GCSEs 99999999887
- HPQ on AI A*
- Awards: Imperial Stem Potential, Isaac Stem Smart, Exeter Scholar, CyberFirst Advanced and Futures

PROFESSIONAL EXPERIENCE

Gemba Advantage | Summer Intern | London, United Kingdom June 2024 - August 2024

- Used AWS Cloud Practitioner Accreditation I achieved to rapidly replicate production system
- Developed a suite security testing scripts that performed both Static and Dynamic Application Security Testing then provided a report with suggested improvements
- Wrote Terraform code to securely provision AWS services such as S3 buckets to store Terraform State with associated DynamoDB table inline with best practices
- Gained practical experience writing lambdas for document processing and interfacing with IoT core and MQTT

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 Tokeniser, Lexer, Abstract Syntax Tree generator, and Parser for the language in C++ from scratch

EXTRACURRICULAR ACTIVITIES

Programming Club | Leader | Thomas Hardy 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

Computer Science Society | General Secretary | University of Nottingham May 2024 - Present

- Facilitated a partnership to bring internship opportunities at a non-profit start up to the societies' members
- Created template for the CompSoc instagram posts which have since gained

HackSoc | Member | University of Nottingham August 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 | AWS, Terraform, Python, C/C++, ARM Assembly, JavaScript, SQL, Unix/Unix-like, vim, emacs

Interests | Calisthenics, Chess, Compilers, Formula 1, Walking, Makoto Shinkai films