

Tabitha Goldman

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EDUCATION

Imperial College London

2019-Present

Undergraduate degree: MEng Joint Mathematics and Computing

Currently in second year of study. Modules include Calculus, Linear Algebra, Abstract Data Structures, Algorithms, Logic, Graphs and Programming

King's College London Mathematics School

2017-2019

Sixth Form

A-levels: A* A* A (Mathematics, Further Mathematics, Physics)

Other: Computer Science (AS) A, STEP I 1

PROJECTS

Music Generation Algorithm

2020

Generated MIDI files locally similar to an input file using constraint solving

- Implemented the Wave Function Collapse algorithm in C
- Applied algorithm to MIDI files

C Assembler and Emulator

2020

Wrote an Assembler and Emulator in C for a subset of the ARM instruction set architecture

Software Projects

2019-2020

Highlights of Haskell and Java projects include:

- Haskell implementation of an L System
- Java command line interpreter for turtle graphics

Dyson Cafeteria: Queue Modelling Project

2018

Wrote a report detailing recommendations for more efficient lunch queue systems for Dyson

- Researched efficiency of different types of queues
- Modelled queues in Python using SimPy

ACHIEVEMENTS

- Commendation medal in the 2018 Singapore International Mathematical Challenge representing the UK.
- Competed in the 2018 and 2019 UKMT Mathematics Olympiad for Girls and 2019 UKMT British Mathematical Olympiad.

SKILLS

Languages

Haskell, Python, Java, C, ASM

Software

L^AT_EX, Git

Leadership

Completed youth movement leadership programmes. Developed and ran activities in weekly meetings and annual summer camps

Hobbies

Saxophone, climbing, calligraphy