

Fawaz Shah

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Joint Maths and Computing (JMC) student

Education

- **Imperial College London**
○ *BEng. Mathematics and Computer Science (Joint Honours)* 2017–2020
Current modules of interest: Java, Logic, Graphs and Algorithms, Applied Methods and Linear Algebra
- **St. Olave's Grammar School**
○ *GCSEs and A Levels* 2010–2017
A Levels: 4 A*s (Maths, Further Maths, Chemistry, Physics) & 1 A (EPQ)
AS Levels: 1 A (Computing)
GCSEs: 10 A*s & 2 As

Technical and Personal Skills

- Written Python code for maths-intensive personal projects, such as matrix inversion and manipulation of coprime theory and the Mandelbrot set
- Implemented Haskell in scenarios such as writing a mail-merge program, generating fractals using Lindenmayer systems and creating a symbolic calculus interpreter
- Implemented Java in situations such as solving the shortest path problem, scheduling timetables and basic critical path analysis
- Written a countdown web app in HTML5, using CSS3 for styling and JavaScript for logic-handling
- Hosted and managed a public web server on a Raspberry Pi, using knowledge of Bash and Linux
- Familiar with git and programming on Unix systems

Positions of Responsibility

- **Imperial College JMC Year 1 Academic Representative** Sep. 2017 - Jul. 2018
Current duties include:
 - Collecting feedback from other first year JMC students and passing it on to the coordinators of the degree
 - Reporting any academic issues to relevant lecturers or administrative staff
 - Working with senior members of staff and other representatives to solve problems faced by JMC students
- **President of St. Olave's Computer Science Society** Jan. 2016 - Dec. 2016
 - Scheduled regular meetings throughout the year, presented talks on significant topics such as quantum computing and artificial intelligence, and encouraged younger students to give presentations themselves
 - Expanded the size of the society, by opening it up to all years instead of just 6th form and promoting it heavily
 - Organized a presentation given by a senior developer at Oracle, achieving record turnout to the Society
 - Helped organize the St. Olave's Programming Competition, a 1-term-long coding competition for younger students
- **St. Olave's Computing Prefect** Sep. 2016 - Feb. 2017
 - Mentored a GCSE Computing student, checking up regularly and ensuring he was coping well with the curriculum
 - Arranged St. Olave's Raspberry Pi club, helping younger years to learn Bash and Python

Notable Achievements

- Published a dissertation on "The socioeconomic effects of artificial intelligence in the future" in the St. Olave's Academic Journal
- Awarded the St. Olave's Senior Colours tie and the H.G. Abel prize for academic excellence