**Education**

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Fawaz Shah

**BEng. Mathematics and Computer Science (Joint Honours), Imperial College London [2017-2020]**

* Current modules of interest: Java, Logic, Graphs and Algorithms, Applied Methods and Linear Algebra
* Other 1st year modules: C, Haskell, Reasoning about Programs, Foundations of Analysis, Mathematical Methods, Algebra and Analysis

**St. Olave’s Grammar School [2010-2017]**

* A Levels: Maths (**A\***), Further Maths (**A\***), Chemistry (**A\***), Physics (**A\***) & EPQ (**A**)
* AS Levels: Computing (**A**)
* GCSEs: **10 A\*s and 2 As**, including A\*s in Maths, English Language, English Literature, Biology, Chemistry, Physics and Computing

**Technical Experience**

* 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

I am familiar with git and programming on Unix systems. Many of my programs are available to download from [fawazshah.github.io](https://fawazshah.github.io/).

**Positions of responsibility**

**Imperial College Joint Maths and Computing (JMC) Year 1 Representative [2017-2018 academic year]**

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 [2016-2017 academic year]**

* 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 [2016-2017 academic year]**

* 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
* Nominated for Computing Student of the Year by the St. Olave’s Computing Department