Fawaz Shah

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Joint Maths & Computing (JMC) student

Education

○ **Imperial College London**
  BEng. Mathematics and Computer Science (Joint Honours)   *2017–2020*

  On track for First Class Honours (1st year result: 72%)

○ **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 mathematical personal projects, such as solving sets of simultaneous equations and manipulation of coprime theory and the Mandelbrot set
○ Implemented Java solutions in situations such as solving the shortest path problem, modelling traffic flow and solving mazes
○ Led my team through a group project in building a binary emulator and an assembler in C
○ Built and managed a public web server on a Raspberry Pi, using a LAMP stack
○ Familiar with Git and programming on Linux systems

Work Experience

○ **Netcraft Ltd.**
  Software Engineer - Intern   *Jul. - Aug. 2018*
  - Implemented new features to integrate two of Netcraft's biggest services, C2 and Takedown
  - Wrote production code in Perl and SQL, refactored some of the existing Perl codebase for ease of use
  - Gained experience in full stack development and exposure to the MVC interface pattern
  - Integrated C2 with the older Contracts system, and rewrote old documentation with instructions for integrating with newer systems

○ **SolidariTee National**
  Volunteer Web Developer   *Apr. 2018 - present*
  - Redesigned the website front-end, using HTML5 and CSS3, to make it more mobile-friendly
  - Gained experience with using npm and ZURB Foundation

Positions of Responsibility

○ **Imperial College London**
  JMC Year 1 Academic Representative   *Sep. 2017 - Jul. 2018*
  - Liaised with senior members of staff and other representatives to solve problems faced by JMC students
  - Collected feedback from other first year JMC students and passed it on to the coordinators of the degree
  - Reported any academic issues to relevant lecturers or administrative staff

○ **St. Olave's Grammar School**
  President of Computer Science Society   *Jan. - Dec. 2016*
  - Gave regular presentations throughout the year 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 talk given by a senior developer at Oracle Corporation, achieving record turnout to the Society

Notable Achievements

○ Awarded the St. Olave's Senior Colours tie and the H.G. Abel prize for academic excellence
○ Awarded a Merit in Imperial College's Japanese Horizons Level 1 Course
○ Represented Imperial College at Just Bollywood 2017