Fawaz Shah

✉ fs2217@ic.ac.uk

Personal Website: fawazshah.github.io
GitHub: github.com/fawazshah

Education

Imperial College London
MEng. Mathematics & Computer Science (Joint Hons.)   *2017–2021*
- Awarded First Class Honours
- Thesis topic: *Detecting Political Bias On Reddit With Transfer Learning*
- Modules of interest: Natural Language Processing, Machine Learning for Imaging, Time Series Analysis

St. Olave's Grammar School
GCSEs and A Levels   *2010–2017*
- A Levels: 4 A*s (Maths, Further Maths, Chemistry, Physics)

Experience

Bloomberg L.P.
Software Engineering Industrial Placement   *Jun. - Sep. 2020*
- Worked in Commodities Navigation & Analytics, a team that services commodities data to Bloomberg's financial analysts
- Added a feature to Amundsen, a dataset discovery web-app, to let analysts launch Jupyter notebooks with datasets automatically loaded into Pandas dataframes
- Improved configurability of the ETL pipeline ingesting data into Amundsen from the Commodities datalake
- Developed an automated smoke tester for the Presto query engine serving the datalake
- Incorporated historical price search and improved charting capabilities into one of the team's Bloomberg Terminal functions

Bloomberg L.P.
Software Engineering Intern   *Jul. - Sep. 2019*
- Worked as part of Strategy Indices, a division who produce custom multi-asset indices implementing trading strategies for enterprise clients
- Developed a visualisation tool to display the structure, configuration and historical data of indices created with 'Behaviours', an internal C# framework
- Created user interfaces using WPF and XAML, with an SQL database behind the scenes

Netcraft Ltd.
Internet Services Developer - Intern   *Jul. - Aug. 2018*
- Worked on a feature allowing malicious URLs to be automatically taken down based on certificate authority
- Refactored 20+ year old Perl codebases for ease of use

Positions of Responsibility

Imperial College Department of Computing EdTech Group
Volunteer Software Engineering Contributor   *Aug. 2020 - present*
- Developed key features of a new application for accessing lecture notes and coursework feedback, to be used by all 1000+ Department students
- Reduced site latency when accessing lecture notes by 75%, and redesigned the homepage for mobile-friendly use
- Developed frontend in React, with Python + Flask for API work

Undergraduate Teaching Assistant
Modules: Graphs & Algorithms, Logic, Reasoning About Programs   *Oct. 2019 - Mar. 2020*
- Led weekly tutorial sessions for a group of 9 first year Joint Maths & Computing students
- Marked weekly tests and provided guidance and feedback throughout the academic year

DoCSoc (Imperial College Department of Computing Society)
Marketing & Publicity Officer   *Aug. 2018 - July 2019*
- Presented an introductory lecture on using Linux and the command line, attracting over 120 students
- In charge of social media and designing DoCSoc apparel

Notable Achievements

o Awarded a Merit in Imperial College's Japanese Horizons Level 2 Course
o Awarded Union Colours for outstanding service to Imperial College Union