

Fawaz Shah

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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

Projects

- **Micro-kit**
University Software Engineering Group Project Oct. - Dec. 2019
 - Micro-kit is a web application built to help teach schoolchildren the basics of music production using the BBC micro:bit
 - Written in React, using Web Bluetooth API to connect to a hardware interface running on the micro:bit

Positions of Responsibility

- **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

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