

# Fawaz Shah

✉ fs2217@ic.ac.uk

Personal Website: fawazshah.github.io

GitHub: github.com/fawazshah

## Education

---

- **Imperial College London**  
*MEng. Mathematics and Computer Science (Joint Honours)* 2017–2021
  - On track for First Class Honours
  - Modules of interest: Machine Learning, Computer Vision, Time Series Analysis, Algorithms, Compilers, Databases
- **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 Union Colours for outstanding service to Imperial College Union
- Awarded a Merit in Imperial College's Japanese Horizons Level 1 Course