Mughees Asif

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EDUCATION

Planed Masters
- MSc. Computer Science upon graduation (Sept. '21 – Jun. '22).

BEng. Aerospace Engineering
(Predicted: *First)*
Queen Mary, University of London
Sept. '18 – Jun. '21
- *Award-winning Course Representative*: Peer-elected; represent students' opinions regularly at Student Staff Liaison Committee meeting. Received Contribution and Engagement Awards.
- *Science and Engineering Faculty Student Representative*: Promoted to represent the feedback of the full department comprising of ≈ 3000 students at senior university committee meetings.
- *Student Ambassador*: Meeting prospective students; explaining course structure and leading campus tours.
- *President of the Chess Society*: Advertising the society's presence; increased paying members from 40 to 62 (55% increase).

Foundation Degree
(*Distinction*)
Uni. of Huddersfield
Sept. '17 – Jun '18
- *The Engineering Departmental Award for the Best Student:* Awarded for excellent engagement and academic achievements *(Achieved: First Class / 91% overall)* including 100% in all mathematics examinations.
- *Team leader in design project:* CAD project involving manufacture of a rubber-propelled boat using additive layer manufacturing of ABS, using FDM (90%).

GCSEs
Wakefield
- 10 A-Cs including A in Physics, A in English Language, B in Mathematics, and 'Distinction' in I.T.
- Member of the football, basketball, and cricket team.

EXPERIENCE

Mobile Developer
astric, Mar. '20
- Using React Native based on advanced JavaScript (ES6+) to build a cross-platform mobile application.
- Deployed the company website using GatsbyJS.

Systems Engineer
Nov. '19 – Mar. '20
- Research and implementation of suitable manufacturing processes, including CNC and FDM.
- Collaborating to develop an autonomous flight system.

Software Developer
Formula Student
Oct. '18 – Jun. '20
- Co-operated with the Head of Electronics to develop a telemetry system, enabling two times more data available for the team including throttle response and power output.
- Individually, designed the GUI in JavaFX to increase functionality and usability.
- Created a paddle-shift logic algorithm in C++ to implement into the ECU.

Brand Ambassador
Aug. '19 – Mar. '20
- *MATLAB & Simulink Student Ambassador*: Holding different events at university, such as Neural Network configurations and Data Visualisation, to highlight the MathWorks suite.

SCHOLARSHIPS

Royal Academy of Engineering
- *Sir Ralph Robins Scholarship*: Selected as 1 of 3 students in the UK. The award recognises excellence in engineering from under-privileged and under-represented backgrounds.
- *Engineering Leaders Scholarship*: 1 out of 30 students in UK. The award recognises undergraduates who have the potential to become leaders in engineering and who are able to act as role models for future engineers.

PROJECTS

Technical
(source code available on GitHub)
- **Kotlin**:
  - Created Android open-source plug&play templates including a YouTube video player and Flickr Browser clone.
- **Java**:
  - Used JavaFX to make a telemetry system GUI; designed the backend by implementing real-time data receival and logging capabilities.
  - Familiar with concurrency, multi-threading, databases, and network programming.
- **JavaScript (ES6+)**:
  - Built different projects using React & GatsbyJS, in conjunction with, Node.js + ExpressJS to make single, multi or hybrid web applications.
- **Python**:
  - Machine learning models (Linear SVC and RidgeRegression) used on classification problems; bulldozers (datasets from Kaggle).
  - TensorFlow library used on a computer vision problem of identifying dog breeds.
- Familiar with the fundamentals of **AWS** and **Google Firebase**.

MISCELLANEOUS

Communication
- Fluent in three languages; English, Urdu, and Punjabi.

Interests
- Reading literature related to philosophy such as Marcus Aurelius – Meditations, classics including Alexander Dumas – The Count of Monte Cristo and cosmology for example Stephen Hawking – A Brief History of Time.
- Staying active through a variety of sports including winning an indoor rowing challenge.
- Staying updated on programming best practises through email newsletters such as MIT Tech Review and TL;DR.