MUGHEES ASIF

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EDUCATION

BEng. Aerospace Engineering
(Predicted: *First)*
Queen Mary, University of London
Sept. '18 – Ongoing

- Third-year project: Deep reinforcement learning (Proximal Policy Optimization algorithm) used to train an agent to balance a double inverted pendulum. More information available **here**.
- 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 engineering department comprising of ≈ 3000 students at senior university committee meetings.
- Student Ambassador: Meeting prospective students; explaining course structure and leading campus tours.

Relevant modules:

Systems Analysis and Design	**83.4%**
Mathematics and Computing II	**84.7%**
Engineering Mechanics: Dynamics	**81.7%**
Engineering Design Methods	**80.9%**
Advanced Engineering Mathematics	**78.3%**

Overall performance summary:

First Year	**1:1**
Second Year	**1:1**
Third Year	**1:1** (Predicted)

EXPERIENCE

DSC Lead
Google Developers,
Aug. '20 – May. '21

- Developer Student Club (DSC) Lead; leading a team of 18.
- Use Google technologies to help the local community.

Brand Ambassador

- Cisco (*Sept. – Nov. '20*): Promote the brand and available job opportunities across all corners of the campus.
- MATLAB/Simulink (*Mar. '20 - Ongoing*): Hold different events to highlight functionality of the software suite.

Mobile Developer
astric, Mar. – Jul. '20

- Leveraged Google Maps API and React Native (JavaScript ES6+) to build a cross-platform mobile application.
- Deployed the company website using GatsbyJS; *improved web performance by 9%*.

Software Developer
Formula Student
Oct. '18 – Jun. '20

- Developed a telemetry system, enabling availability of twice more data, including throttle and power response.
- Individually, designed the GUI in JavaFX to increase functionality and usability; *reduced latency by 12%*.
- Created a paddle-shift logic algorithm in C++ to implement into the ECU.

AWARDS

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 the UK. The award recognises undergraduates who have the potential to become leaders in engineering and who can act as role models for future engineers.

University of Huddersfield

- The Departmental Award for the Best Student: Awarded for excellent engagement and academic achievements (Achieved: First Class / 91% overall) including 100% in all mathematics examinations.

PROJECTS

Technical
(code available as *open-source* on my GitHub)

- **Kotlin**:
  - Created Android open-source Plug&Play templates including a YouTube video player and Flickr Browser clone.
- **Java SE 11**:
  - Used JavaFX to make a telemetry system GUI; designed the backend by implementing real-time data retrieval and logging capabilities.
  - Familiar with concurrency, multithreading, OOP, and agile methodology.
- **JavaScript (ES6+)**:
  - Built different projects using React & GatsbyJS, in conjunction with, Node.js + ExpressJS to make static, dynamic or hybrid website applications.
- **Python**:
  - Machine learning models (Linear SVC and RidgeRegression) used on classification problems.
  - TensorFlow library used on a computer vision problem of identifying dog breeds.

Extra

- **AWS**: Deploying EC2 instances, using the IAM console, querying different databases (Aurora, DynamoDB).
- **SQL**: Managing and organising data for a face detection application using PostgreSQL.
- **LaTeX**: Proficiency developed through multiple university reports.

MISCELLANEOUS

Communication

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

Interests

- Regularly participate in hackathons including Google Hashcode, Expedia Codalytics & Twitter Codechella (3^{rd}).
- Staying active through a variety of sports including participation in indoor rowing challenges.
- Staying updated on industry best practises through email newsletters such as Sifted, MIT Tech Review & TL;DR.