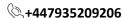
# **MUGHEES ASIF**



🛇 +447935209206 🔽 mughees460@gmail.com 📠 www.linkedin.com/in/mugheesasif 😝 https://github.com/mughees-asif



https://bymughees.com/

## **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  $\approx 3000$  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** 

- <u>Cisco</u> (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.
- 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.

University of Huddersfield

# **PROJECTS**

**Technical** 

(code available as open-source on my GitHub)

# · Kotlin:

- o 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.
  - o 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:
  - o Machine learning models (Linear SVC and RidgeRegression) used on classification problems.
  - TensorFlow library used on a computer vision problem of identifying dog breeds.
- · 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**

Extra

- Regularly participate in hackathons including Google Hashcode, Expedia Codalytics & Twitter Codechella (3<sup>rd</sup>).
- 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.