MUGHEES ASIF

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EDUCATION

BEng. Aerospace Engineering
Queen Mary, University of London
Sept. '18 – June '21

Overall performance summary:

→ First Year	**First**
→ Second Year	**First**
→ Third Year	**First**

Relevant modules:

→ Orbital Mechanics	**92.2%**
→ Mathematics and Computing II	**84.7%**
→ Engineering Mechanics	**81.7%**
→ Advanced Engineering Mathematics	**78.3%**

- Third-year project **(93%)**: *Recognised by the **Institution of Mechanical Engineers** (IMechE) as the best third-year project for a finalist.* PyTorch implementation of the Proximal Policy Optimization algorithm used to train an agent to autonomously balance an inverted double 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 (SA): Resolving queries from prospective students and leading campus tours.
- MathWorks SA: Campus ambassador; held MATLAB/Simulink online workshops for 100+ students.
- Google Developer Student Club (DSC) Lead: Led a team of 18 students; held workshops for 75+ students; first technological society on campus to have the highest female ratio in leadership positions.

EXPERIENCE

Software Engineer Intern
Arm Ltd.
June – Aug. '21

- Development Solutions Group (DSG): Online Tools (OT) team.
- Working on new/existing features for **Keil Studio Cloud IDE** using TypeScript, C++, Jest, Git, and CI/CD.

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.
- Individually, designed the GUI in JavaFX to increase functionality and usability; *reduced latency by 12%*.

AWARDS

University of Oxford

- UNIQ+ Digital: Preparatory course to enable entry into postgraduate education at Oxford via academic mentoring and application proofing from academic staff and current students.

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 *opensource* on my GitHub profile)

- **Kotlin**:
  - Created Android open-source templates including a YouTube video player & Flickr Browser clone.
- **Java**:
  - Used JavaFX to make a telemetry system GUI; designed the backend by implementing real-time data retrieval and logging capabilities.
- **Python**:
  - Linear Regression used on classification problems; TensorFlow used on computer vision problems.
- **JavaScript**:
  - Built different projects using React & GatsbyJS, in conjunction with, Node.js + ExpressJS to make static, dynamic and/or hybrid website applications.

Extra

- **AWS**: Deploying EC2 instances, using the IAM console, querying different databases (Aurora, DynamoDB).
- **SQL**: Familiar with CRUD operations.
- **LaTeX**: Proficiency established through the development of 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.
- 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.