SAIF JAMSHEER

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CORE SKILLS

- **Programming:** Python, C/C++, MATLAB, Swift, Kotlin, Java, SQL

EDUCATION

University of Bath **Oct. 2016 — Jul. 2021**

MEng (hons) Integrated Mechanical & Electrical Engineering

- **Relevant Units:** Computational Intelligence, Digital Image Processing, Robotics Engineering, Integrated Engineering, Digital Systems Design, Biomimetics

RESEARCH ACTIVITY

Deep Learning for Early Diagnosis of a Lung Disease **Nov. 2020 — Present**

- Developing a deep learning model for the early diagnosis of chronic obstructive pulmonary disease using a small dataset of lung CT scans.
- Utilizing image processing techniques for noise reduction and a transfer learning approach (video pretraining) to improve the performance of the model.

Object Detection & Tracking for an Autonomous Racing Car **Oct. 2019 — Present**

- Worked on developing the first iteration of the YOLOv3-based object detection system, which detects and classifies cones of different colors, in C++ .
- Designing a lower-latency and computationally efficient system using PyTorch for Team Bath Racing Electric's 2021 autonomous vehicle.

WORK EXPERIENCE

Software Engineer, Jaguar Land Rover **Jun. 2018 — Jun. 2019**

- Worked on the development of the Land Rover Comfort Controller application as part of an agile team of developers.
- Main responsibilities included UI and backend development using Swift and Kotlin, as well as automating essential tasks by writing executable scripts in Python.

Research Intern, Mumtalakat Holding Company **Jul. 2017 — Sep. 2017**

- Conducted research for the investment team to determine potential investment opportunities in areas such as technology, healthcare, and education.

ACADEMIC HONORS

Crown Prince's International Scholarship **Apr. 2016**

- One of only ten annual recipients of a full scholarship. The scholarship covers all tuition fees and living expenses for undergraduate and graduate education.

EXTRACURRICULAR

Team Bath Racing Electric **Oct. 2017 — May 2018 / Oct. 2019 — Present**

- Worked on the design of high voltage driver-assist systems.
- Transitioned to the AI division in 2019; worked on dynamic path planning and currently working on real-time object detection.

Peer Mentoring **Oct. 2017 — May 2018**

- Volunteered to mentor a group of first year students for one academic year.
- Helped with problem sheets in mathematics, digital circuits, and programming.