Iman Hussain

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Summary

Passionate developer and researcher, with 6 years of experience in low cost sensors and data analytics. Currently focused on indoor air quality and links to stakeholder requirements and energy usage. Driven, motivated and an award-winning speaker and teacher.

Skills

Python, Big Data Analytics, Low Cost Sensors, Software Development, Air Quality Field Research

Experience

National Air Quality Testing Services | Lancaster
Research Fellow | 01/2021 - Present

PhD Thesis focusing on understanding and balancing the relationship between energy usage, stakeholder requirements and indoor air quality. I was able to:

- Use low cost sensor equivalents to collect real world data (CO_2, PM2.5/10) from school classrooms.
- Estimate and develop carbon reductions of up to 10% by using demand-based heating/ventilation.
- Working with OpenAQ datasets to understand indoor air quality and links to outdoor pollution.

The University of Wolverhampton | Wolverhampton
Guest Lecturer | 01/2020 - 01/2021

After completing my undergraduate studies I chose to stay and pursue a Masters. I was given the opportunity to help teach and deliver lectures. My responsibilities included:

- Inspiring and developing university students.
- Creating an appropriate syllabus to deliver key skills in an engaging way.
- Working on cutting edge research.

Education

Lancaster University | Lancaster
PhD Computer Science

Leveraging my computer science background I'm working as part of the Socio-Digital Sustainability team to develop low-cost sensors and manage indoor air quality, energy usage and stakeholder needs.

University of Wolverhampton | Lancaster
MSc Computer Science | 06/2020

My achievements & activities included:

- Achieved average of 92% & won Dean's award for innovation.
- Final year project was an IoT based smart plant monitor that could use big data to analyse plant health.
- Dissertation focused on Blockchain and how it could be used to secure an IoT product.

Awards

Richardsons Award in Innovation, Lancaster University STEM Research Poster Gold, IBM Call for Code 2020 2nd Place

Links

www.imanhussain.com

www.linkedin.com/in/iman-hussain/