
Tuqa Al-Rubayawi

Nottingham, NG1, UK. | Nationality: Irish - Female |
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CFD Engineer with one year plus experience in construction consulting sector in fire and smoke modelling (FDS) and wind and micro- climate assessment using PyroSim software and CFD modelling to provide the best solutions for the architects and the developers.
Also, I have Masters and Bachelor's degrees in biomedical engineering from Trinity College Dublin with knowledge of (C++ 11+ coding) and Web development skills.
I decided to change my career to IT sector and I am looking for a new opportunity in IT sector or as a junior developer role.
Please consider my cv for any position. You can contact me through my email or phone number mentioned above.

Professional Experience

B-Fluid Ltd (Didcot, Oxfordshire, UK) 12/20 - 01/22
CFD Engineer

- Fire and Smoke Modelling
- Wind and Micro-climate Assessment
- Fire and Smoke modelling by using PyroSim software to analyse and control the smoke movement and implementing fire engineering solutions within the design of buildings before the construction.
- I was involved in some smoke ventilation modelling projects for warehouses in Ireland, mostly in Dublin City.
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- Wind and Micro-climate Assessment, using CFD modelling to predict the impact of wind forces at façade and the buildings and applying the best landscaping for the pedestrian safety and comfort by evaluating the right mitigation measures.
- This position has improved my time management and responsibilities in terms of applying the priorities for human safety during design of a building.

Accenture 10/19 - 11/20
Fraud & Risk & Payment Analyst

- My duties were to provide quality risk review service and ensure and secure the related finance platform against any fraudulent activity.
- This position has improved my focus, accuracy, communication and fraud detection skills.

Math Tutor 06/13 - 08/19
Volunteer Mathematics Tutor

- Teaching some students privately and volunteering during my free time in college life.
- This duty has improved my time management, organisation and caring skills.
- I had a very good impact on some students's mental health with different range of age groups by advising and helping them to achieve their goals from different angles and encouraged them to talk about their own problems with someone who can trust and help.

Education

Udemy.com 10/22 - Present
C++ Language and Linux , Complete Web Development Bootcamp

Trinity College Dublin
M.A.I master's in Biomedical Engineering

09/17 - 06/18

- Dissertation: Design and Validation of a fluid flow chamber system suitable for examining the influence of shear stress on cells. I designed and 3D prototyped this fluid chamber in my college and now it has been used in testing the shear stress on the eye cells in the laboratories.

Trinity College Dublin
Bachelor's degree in Biomedical Engineering - Second Class Honours

09/11 - 05/17

- Dissertation: Fabrication and Compressive Force Testing of NiTi-Based Urethral Stent.

Trinity College Dublin
Bachelor's degree in Art

09/11 - 05/17

The Institute of Education in Dublin
Leaving Certificate

09/10 - 06/11

Key Skills

- IT: Microsoft Office: Word, Excel, PowerPoint, outlook, Foxit reader.
- (C++ 11+)Programming
- Linux platform
- Visual Studio 2022
- Visual Studio Code
- HTML5
- CSS
- CFD Modelling Using PyroSim software
- TeXstudio
- SketchUp
- 3-D Prototyping & Printing
- ImageJ Toolbar for Image analysis
- Googling
- Active listening and advising in general problems
- I am very friendly, open minded, reliable and flexible.
- Fluent in English and Arabic.
- Full and clear UK driving license.

Interests

- Running, Daily 2km fun run for stress relief.
- Cooking, love the Mediterranean diet recipes.
- learning new fields in education and science.