

Tuqa Al-Rubayawi

Software Engineer

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Portfolio:

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Profile

I am a versatile and dedicated engineer who turned into a Junior Full-Stack Web Developer with a robust academic background in Biomedical Engineering, complemented by practical experience as a CFD Engineer in a prominent construction consulting firm. My expertise involves the comprehensive design and CFD modeling of buildings and warehouses, focusing on ensuring safety by analysing fire and smoke control during emergency scenarios. Over the course of my diverse career, I've ventured into fraud and risk analysis, math tutoring, clerical roles, typist duties, travel agency assistance, and sales, showcasing adaptability and a broad skill set. Motivated by a newfound passion for software development and web design, I pursued coursework in Full-Stack Web Development and attained mastery in C++ programming through Udemy.com. Also, actively engaged as a trainer in a 3-month intensive boot camp course with 'Just It Ltd' in London, I gained foundational knowledge in full-stack web and software development. A quick learner, I possess a solid foundation in HTML, CSS, JavaScript, Python, MySQL, and C++, with emerging proficiency in frameworks such as React (front end) and Node.js (back end). My enthusiasm lies in creating dynamic, user-friendly web applications, underpinned by strong problem-solving skills and acute attention to detail. Recognized for effective communication, I excel in collaborative environments, ensuring the delivery of high-quality solutions through cross-functional teamwork.

Key Skills

- Front-End Development: HTML5, CSS3, JavaScript
- Back-End Development: Node.js, Express, Python
- Databases Management: MySQL, MongoDB
- Version Control: Git, GitHub
- Programming: C++ 17/20
- Responsive Web Design
- Problem-solving and Debugging
- Collaboration and Communication
- Linux Command Line platform
- Fluent in English

Transferable Skills

- Engineering and Design Experience
- Microsoft Word, Excel, Power Point, Outlook
- Strong Teamwork and logical thinking skills
- Meticulous

Personal Projects

Portfolio Website Development:

Applied responsive web design principles for optimal user experiences across diverse devices.

Professional Experience

CFD Engineer

B-Fluid Ltd, (Didcot, Oxfordshire, UK)

11/2020 - 01/2022

- Utilized PyroSim and SketchUp software to design and CFD-model warehouses and buildings.
- Conducted comprehensive analysis of model safety, focusing on fire and smoke control during fire incidents in buildings.
- Implemented fire engineering solutions within the building design, ensuring safety measures were integrated prior to construction.
- Spearheaded smoke ventilation modeling projects for warehouses in Ireland, enhancing safety protocols.
- Executed wind and microclimate assessment projects, employing CFD modeling to predict wind forces' impact on facades and buildings.

Fraud & Risk & Payment Analyst, Accenture, (Dublin, Ireland)

10/2019 – 11/2020

I was responsible for delivering high-quality risk review services and safeguarding the associated financial platform from potential fraudulent activities. This role has significantly enhanced my concentration, precision, communication, and expertise in detecting fraudulent activities.

Volunteer Mathematics Tutor (Dublin)

06/2013 – 08/2019

Teaching some students privately and volunteering during my free time in college life. This duty has improved my time management, organization, and caring skills.

Clerk at the Embassy of Qatar (Amman, Jordan)

12/2004 – 10/2006

My duties were to give visas, send generalizations to other embassies, commercial and general documents legalization, typing the daily news, and phone operator. This position has developed my organizational and communication skills and increased my ability to multi-task whilst working under pressure without loss of accuracy.

Typist at (The Era of Economics Newspaper) (Amman, Jordan)

02/2004 – 11/2004

My duty was to type the daily translated news in Arabic and send them to the news editors on time. Also, I some occasions, I used to go with our reporter to attend some meetings as a translator. This position had developed my communication, interpersonal and team working skills.

Travel Assistant at (Mahd Al Buraq) Travel Agency (Amman, Jordan)

05/2003 – 01/2004

My duties were to book hotel reservations and airplane and tram tickets for customers. Also, I did some tour guiding and translating for the customers. This position also has developed my communication, problem-solving, and organizational skills, which developed my multi-task ability.

Sales Assistant at the International Exhibition (Amman, Jordan)

Interpreter and seller of beauty products of a Syrian company.

2003

Interpreter and seller of an Egyptian company's products.

2002

Interpreter and representative of a Saudi company for construction.

2001

Education

Just IT Training Ltd, London, UK

10/2023 – 01/2024

Digital Skills Bootcamp: Software development. A twelve weeks intensive bootcamp covering the fundamentals of Web and Software development.

Udemy.com, Full-Stack Web development

11/2022 – Present

C++ Mastering Course - studied 2 different courses, from Udemy and Currently working on small projects.

M.A.I Master's in Biomedical Engineering

09/2017 – 06/2018

Trinity College Dublin, Ireland

Bachelor's degree in Biomedical Engineering

09/2011 – 06/2017

Trinity College Dublin, Ireland

Bachelor's degree in Art

09/2011 – 06/2017

Trinity College Dublin, Ireland

The Leaving Certificate

09/2010 – 06/2011

The Institute of Education in Dublin, Ireland

Fifth Year of High School

09/2009 – 06/2010

Pearse College of Further Education in Dublin, Ireland

Interests and Hobbies

I enjoy doing embroidery and knitting which makes me like coding. I also, like running and hill walking and have a keen interest in learning new fields of technology.

References

Available on request.