

ABDULAZIZ AL-RABIAH

Portfolio website:



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Objective:

I am seeking an opportunity to apply my academic background and technical skills in a dynamic and collaborative work environment. My goal is to contribute to the success of the company by bringing my best knowledge and expertise. I am eager to learn and grow with the company, enhance my abilities through hands-on experience, and tackle challenges that lead to both personal and professional excellence.

Education:

Queen's University Belfast BENG (S) Software Engineering, Second Class Honours.

Academic Year 2021/22

Databases

Object Oriented Programming

Software Design Principles

Architecture and Networks

Procedural Programming

Academic Year 2022/23

Software Engineering and Systems Development

Data Structures and Algorithms

Introduction to Artificial Intelligence and machine learning

Service-Oriented Programming

Professional and Transferrable Skills

Academic Year 2023/24

Software Testing

Software Engineering Project

Cloud Computing

Secure Software Development

Team-based Software Innovation

Soft Skills:

- **Teamwork**
- **Communication**
- **Problem Solving**
- **Critical Thinking**

Technical skills:

- **Operating Systems:** Windows, kali Linux.
- **Development Languages:** Java, HTML, C++, SQL, MySQL, Python, CSS.
- **Applications:** Microsoft Office, Figma, SQL server, IntelliJ IDEA, Visual Studio, Qt Creator.

Some previous projects:

Database project:

using **MySQL** and **SQL** was aimed to demonstrate competency and understanding in the Creation of **RDBMS** using **MySQL** from a provided schema, implementing constraints to ensure referential integrity, **SQL** for the creation of tables, **phpMyAdmin** for importing data into tables, and **SQL** for extraction of data to answer specific queries

Software Design Principles:

This project was focused on how I deal with being in a team project, and my daily contribution to the project. It was about simulating a Vending machine with access to the owner and the user, there was a Sprint backlog and a product backlog which record daily processes to the project in general and my contribution.

Artificial Intelligence and Machine Learning:

I implemented and optimized **ML** models using **R** for image classification, including logistic regression and k-nearest neighbours, and performed advanced analysis with random forests. I effectively used cross-validation, hyperparameter tuning, and robust statistical evaluations to ensure reproducible results.

Secure Software Development:

In this project, I developed a **threat model** for an eCommerce platform to identify potential security vulnerabilities and formulate effective **mitigation strategies**. My approach integrated risk assessment techniques with industry standards to ensure a robust security framework capable of protecting sensitive data and maintaining business integrity.

Experience:

Software Engineer at Rheinmetall Arabia for Simulation and Training (RAST). July 2024 – Present

Working on Arresting system for military air bases in Saudi Arabia, currently creating the Control Interface Software that will be implemented on custom made tablets.