ABDULAZIZ AL-RABIAH

Portfolio website:
https://dream11711.github.io/my-cv-website/

Personal details:
+966550480974 Email: abdulaziz_alrabiah@outlook.sa LinkedIn: www.linkedin.com/in/Abdulaziz-K-Alrabiah
GitHub: dream11711

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	Academic Year 2022/23	Academic Year 2023/24
Databases	Software Engineering and Systems Development	Software Testing
Object Oriented Programming	Data Structures and Algorithms	Software Engineering Project
Software Design Principles	Introduction to Artificial Intelligence and machine learning	Cloud Computing
Architecture and Networks	Service-Oriented Programming	Secure Software Development
Procedural Programming	Professional and Transferrable Skills	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:

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.

Experience:

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

Developed and implemented control software for the RSAF military arresting systems using Kotlin. The app enables control towers to operate and monitor arresting systems in real time. A PLC simulator was also built in Python for testing. The system auto-configures the runway, BAK, and system ID, and displays key parameters:

- Air Compressor.
- Water Discharge level with pump status.
- Exhaust Fan.
- PIT Temperature & Moisture
- Hydraulic Pressure.

Two versions were developed:

- TCP-based, using bit-level command exchange
- Multicast-based, with structured 16- and 32-byte messages

Features include: power & communication failure indicators, heartbeat monitoring, and maintenance mode.