Rakan Zeid Al Masri *rakanalmasri97@gmail.com | 01525-560-4696 | Karlsruhe, BW*

Education

Karlsruhe Institute of Technology Karlsruhe
B.Sc. Computer Science (Informatik), GPA: 2.2 (German system) *Oct 2018 | Feb 2022*

Experience

Chair for Embedded Systems - KIT *Intern (Praktikant)* *Oct 2019 | Apr 2020*

- Worked on the development of a distributed task scheduling system in C++ in a team of five.
- Developed the MySQL-database using the QT SQL Module framework and integrated it into other parts of the product.
- Wrote extensive tests using the Google Test framework.
- Wrote documentation (class diagrams, ER models, etc.) for each stage in the development process.
- Used software design patterns like the Factory, Repository, Gateway, Observer and Strategy patterns to produce clear and understandable code.

Skills

Java, Python, C++, C, SQL, Haskell, Prolog

Tools Git, Docker, Qt, LaTex, MySQL, CMake

Languages English (native), German (C1), Arabic (native)

Projects

DAWN 11/15 Java *https://github.com/ralmasri/DAWN-11-15*
An interactive CLI board game built in my first semester Java course

Material Requirements Determination Java *https://github.com/ralmasri/Final-Project-2*
An interactive CLI program that simulates a factory in my first semester Java course.

My Website Hugo, HTML, Google Analytics *https://ralmasri.github.io/*
My personal website with Google Analytics functionality designed using the Hugo framework and hosted on Github using submodules.

Automation Scripts Python, Bash
A bunch of simple of automation scripts for updating my website and other menial tasks.

Data Science Projects Python
While doing the Financial Data Science course at KIT, I've created Python scripts that analyze and forecast financial data. Examples include modelling via ARMA and ARCH-GARCH models, Ordinary Least Squares, Maximum Likelihood Estimation, etc.