

# Rakan Zeid Al Masri

US citizen

ralmasri.github.io

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github.com/ralmasri

## EDUCATION

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- **Karlsruhe Institute of Technology** Karlsruhe, Germany
  - *BSc in Computer Science* *October 2018 - February 2022 (Expected)*
    - **Relevant Coursework:** Software Engineering I, Operating Systems, Computer Networks, Database Systems, Algorithms, Digital Electronics, Foundations of Computer Science.

## EXPERIENCE

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- **Karlsruhe Institute of Technology - Chair for Embedded Systems** Karlsruhe, Germany
  - *Software Developer Intern* *October 2019 - April 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.
    - Integrated Docker functionality to allow for operation system agnostic distribution of jobs.
    - Learned about the fundamentals of C++, software design and development.
    - Used software design patterns like the Factory, Repository, Gateway, Observer and Strategy patterns to produce clear and understandable code.

## PROJECTS

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- **DAWN 11/15** February 2019 - March 2019
  - Built an interactive CLI board game using Java.
  - Learned and implemented core Java concepts.
- **Material Requirements Determination** February 2019 - April 2019
  - Created an interactive CLI program that simulates a factory using Java.
  - Learned how to implement a tree data structure with a large set of data.
- **My Website** Ongoing
  - Designed my personal website using the Hugo framework.
  - Hosted the website on GitHub Pages and learned about Git submodules.
  - Integrated Google Analytics functionality into the website.
- **Automation Scripts** Ongoing
  - Wrote simple bash scripts to automate parts of my workflow.

## SKILLS

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**Programming Languages** C++, C, Java, Python, SQL, HTML/CSS

**Tools** Git, Docker, QT, LaTeX, MySQL, SQLite, Oracle Database, Virtualbox, CMake

**IDEs** Eclipse, Visual Studio Code, CLion, IntelliJ IDEA

**Languages** English (native), Arabic (native), German (fluent)

## LEADERSHIP AND EXTRACURRICULARS

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- Leader of Unisition's, an university admissions consulting group, Germany team.
- Volunteered in a summer camp in Seblin, Lebanon.
- Member of my high school's IT and Robotics team.
- Student participant in the *Dubai Cares: Walk for Education*.
- Participated in *The Odin Project* Web Development online course.