Mohamed Youssef MHIRI

PERSONAL INFORMATION

BIRTHDATE:	15 May 1995	TEL.:	+49 176 57978027
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ABOUT ME

Experienced software developer with a focus on C++ and PL/SQL, working in the logistics field at Intime Logistics GmbH. Successfully completed a degree in Computer Engineering with solid experience in object-oriented programming, Android development, and image processing. Participated in several projects in a professional environment using agile methods such as Scrum.

PROFESSIONAL EXPERIENCE

JUN 2023 - NOV 2023
Bachelor's Thesis

Android Application for Decoding a Magnetic Data Matrix Code

- Utilized Android Jetpack Suite and Android Studio.
- Implemented Image Processing Algorithm in C++ and packaged it into the project.
- Employed MVVM Design Pattern for Clean Architecture.
- Optimized Application According to Lifecycle Methods.
- Displayed Result in a Separate Activity.
- Stored Decoded Results in a Room Database.

APR 2023 - MAY 2023
Internship

Software Development at MIP Technology GmbH, Hannover

Created a Cross-Platform Application to Execute the Image Processing Algorithm in Real-Time.

JAN 2023 - MAR 2023
Internship

Image Processing at MIP Technology GmbH, Hannover

Developed an Image Processing Algorithm to Convert Magnetic Data Matrix Codes into Standard Data Matrix Codes.

JAN 2021 - DEC 2022
Working Student

Visual Novel Development

- Developed IN/OUT Game Menus.
- Created Game Options.
- Assembled GUI Elements and Renderings.
- Developed an Additional Customized Android Version.

EDUCATION

APR 2017 - OCT 2023

Bachelor's Degree in Computer Engineering
University of Applied Sciences Berlin, Germany
Focus Areas/Interests:

- Object-Oriented Programming
- Embedded Systems
- Software Development
- Image Processing
- Android Development
- Prompt Engineering

University Projects

SEP 2019 - MAR 2021	**Full-Stack Web Application for Managing Wind Turbines in Berlin and Brandenburg**
	• Designed Wireframe.
	• Developed Frontend using HTML, CSS, and Angular.
	• Participated in Backend Development with Node.js.
	• Conducted Complete Unit Testing using Jenkins.
SEP 2021 - DEC 2021	**Projects with Raspberry Pi**
	• Developed a humidifier/dehumidifier system with an OLED display, a BME280 sensor, and a Raspberry Pi, programmed in C++. The system activates the dehumidifier when humidity levels exceed a set high value. Conversely, the humidifier turns on when humidity levels fall below a set low value.
	• Developed a security system with Python and Flask featuring a Pi camera, a piezo speaker, and a PIR sensor that detects movement, captures images of the moving object, and emails them.

Other Courses

- komplette C# Masterclass - von 0 auf 100 in 6 Wochen
- Raspberry Pi For Beginners - 2022 Complete Course

Skills

Programming Languages	C, C++, C#, Kotlin, Python, Assembly
Scripting Languages	Bash, JavaScript, Groovy
Android Technology Stack	Android Studio, Android SDK, Android Jetpack, Android NDK, Kivy, Buildozer
Tools	Git, Scrum
Database	MySQL, MongoDB, Room
Languages	English, German, Arabic, French

Interests

- Calisthenics