# Amr Alkhaled

## CONTACT INFORMATION:

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github.com/amralkhaled211

## SKILLS:

**Programming Languages:** C, C++, Python, Java, SQL,

**Database And Technologies:** MySQL MariaDB, Docker

**Version Control:** Git, SVN,

Agile: strong problem-solving and analytical skills Excellent communication

## EDUCATION:

42 Vienna, Muthagasse 26, /1.Stock

Student in Software Engineering (onging)

## LANGUAGES:

Arabic (Native proficiency)

English (Fluent)

German (B2)

## PROFESSIONAL SUMMARY:

Motivated and detail-oriented student at 42 Vienna with a strong foundation in software development, system design, and DevOPs practices. Skilled in Linux systems, database management, and networking. Known for collaboration and problem-solving, demonstrated through successful team projects. Adaptability and a strong learning ability. Love working with teams where I can learn from them and expand my knowledge and grow in such dynamic and innovative environment.

## Projects Experiences:

**Transcendence - 42 Vienna**
Description: Python, Javascript
(ongoing)
> Developing a full-stack application with both front-end and back-end components. Working with technologies such as React, Node.js, Express, and MongoDB to create a seamless and dynamic website.

**Webserv - 42 Vienna**
Description: C++
> Developed a web server similar to Nginx that supports HTTP/1.1, handles routing, and processes client requests with custom server configurations.
Key contributions:
> Implemented request parsing, header handling, and chunked transfers.
> Designed and developed server configurations and route management.
> Ensured robust handling of concurrent client connections and optimized performance under high traffic.

**Inception - 42 Vienna**
Description: Docker
> Built a containerized environment using Docker to deploy and orchestrate Nginx, Wordpress, and MariaDB services with Docker Compose, simulating real-world web hosting infrastructure.
Key contributions:
> Created custom Dockerfiles for Nginx, WordPress, and MariaDB with tailored configurations.
> Deployed a WordPress site with a MariaDB database and PHP-FPM integration.
> Optimized container security and automated setup for scalability.
> Configured Docker Compose to manage multi-container communication.

**Cub3d - 42 Vienna**
Description: C
> Developed a 3D game engine inspired by Wolfenstein 3D, using raycasting to render 3D graphics on a 2D grid. Focused on game logic, rendering performance, and immersive gameplay mechanics.
Key contributions:
> Implemented raycasting algorithms for real-time rendering of 3D environments.
> Designed and optimized the game loop, including collision detection and player movement.
> Integrated texture mapping for walls, floors, and objects to enhance visual detail.

**Minishell - 42 Vienna**
Description: C
> Created a minimal shell in C, replicating the behavior of a Unix shell. Implemented core functionalities such as executing commands, managing processes, and handling redirections and pipes.
Key contributions:
> Developed a parser to interpret and tokenize user input for command execution.
> Implemented support for environment variables, pipes, and redirections.
> Handled edge cases like signal management (Ctrl+C, Ctrl+D, Ctrl+) to mimic shell behavior.