

Mohamed Yahdih Souiyeh

Software Developer

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Education

2021– Present — 1337 school (42 Network)

Computer Software Engineering

- Learned through **hands-on practical projects** and peer-to-peer learning methodology.
- EX President of the LEET_Makers robotics club at my school.

2018– 2020 — Specialized Institute Of Applied Technology

Projects

MAZE BUILDER & SOLVER (Daedalus project) | [Website](#), [GitHub](#)

- Built an app for visualizing maze generation and path-finding algorithms using **2D Canvas** & **NextJs**.
- Implemented 7 algorithms for maze generation and path-finding like (Dijkstra, A-star, Recursive Backtracker, simplified Prim, breadth-first search...).
- Implemented 4 data structures like (Stacks, Queues, Priority Queues, heap) to optimize performance and memory usage.

Online pong-game platform (transcendence Project) | [GitHub](#)

- Orchestrated my **team of 5** to work more efficiently and effectively on the project.
- Implemented JWT access & refresh tokens for **secure** login and authorization process using **NestJs**.
- Designed and implemented live direct messaging and group chat functionality using **Web-Sockets**.
- Introduced a small DevOps and development environment using **Docker** to ensure that my team could work smoothly from anywhere.

SORTING ALGORITHM (push_swap Project) | [Article](#)

- Implemented a sorting algorithm developed by my peers in **C**.
- Collaborated with my peers to optimize it by **21% faster** and published an article about that.
- Improved a tester to help in the project development phase; my peers currently use it.

HTTP SERVER (Webserv project)

- Developed a simple version of **NGINX** web server using **C++**.
- Learned the **HTTP** and **TCP/IP** protocols fundamentals.

MINI VERSION OF THE BASH SHELL (minishell project)

- Developed from scratch a simple version of the **Bash** shell written in **C**.

Inception (Dev-Ops project using Docker)

- Built a small infrastructure composed of different services (Wordpress, Mariadb and Nginx).
- Learned the basics of **containerization** and applications deployment process.

Experience

2021—august—the C Pool (1337 admission process)

It is a 30 days of learning, solving problems 24/7, and adapting to whatever comes your way. During this month, I have:

- Adapted to the system in the first week with little IT background.
- Collaborated with my peers to solve more than 42 different problems and a group project.

Skills

- C\C++ languages
- Algorithm Design & Analysis
- TypeScript/JavaScript
- Git & GitHub
- Data Structures
- Docker
- Linux

Languages

- **Arabic:** Native.
- **Spanish:** Novice (A0).
- **English:** Proficient (**C2**).
- **French:** Beginner (A2).