

# Mhammad Houjairy

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## EDUCATION

### BS Computer Science

Lebanese University

11/2022 – 06/2025

Hadath, Lebanon

## PROFESSIONAL EXPERIENCE

### Full Stack Developer Intern

UniMade Solutions

07/2025 – 10/2025

Beirut, Lebanon

- Worked on building a multi-tenant SaaS application using **.NET Core** and the **ABP Framework**, applying **Domain-Driven Design (DDD)** principles to ensure a clean, modular, and scalable architecture.
- Implemented core **multi-tenancy** features such as tenant isolation and tenant-specific configurations.
- Leveraged tools like **MySQL Workbench** for schema design, querying, and data modeling.
- Worked in an **Agile** environment, participating in sprint planning, daily stand-ups, and code reviews to ensure high-quality and on-time delivery.
- Used **Jira** to track issues, manage sprints, and maintain lightweight documentation and release notes.

### Full Stack Developer Intern

Two of Us

07/2024 – 09/2024

Beirut, Lebanon

- Developed full-stack web applications using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** to deliver scalable and responsive user experiences.
- Designed **RESTful APIs** with **Express** and **Node.js**, and integrated them with dynamic frontends built in **React**.
- Implemented **CRUD operations** and managed application data using **MongoDB** with **Mongoose** for schema modeling and data validation.

### Competitive Programmer

- Achieved a **top-20 finish** in **LCPC** by collaboratively tackling complex, time-bound algorithmic challenges as part of a high-performing team.
- Regularly participated in Codeforces online programming contests, developing **advanced problem-solving skills**.
- Solved **400+ algorithmic problems** on Codeforces.

## SKILLS

### Backend

.NET Core, Entity Framework Core, ABP Framework, Multi-Tenancy, Domain Driven Design, Laravel, Node.js, Express.js

### AI and Data Science

Tensorflow, Transformers, Numpy, scikit-learn

### Databases

MySQL, MS SQL Server, MongoDB

### Devops

Linux, Docker, bash

### Programming Languages

Python, C/C++, Java, PHP, C#, JavaScript

### Frontend

HTML, CSS, React.js

### Parallelism

Pthreads, OpenMP

## PROJECTS

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### MaskMind [↗](#)

- Built a web-based application that **predicts masked words** in input text using **BERT** and **Hugging Face Transformers**.
- Integrated the model with a clean, interactive **Gradio UI** for real-time input and output visualization.
- Containerized the entire app using **Docker**, enabling consistent deployment across environments.

### RecipeNest [↗](#)

- Developed a dynamic **recipe generator web application** that suggests meal ideas based on user-selected ingredients.
- Implemented **CRUD operations**, **user authentication**, and **form validation** using **Laravel's MVC architecture**.
- Integrated **relational database management** with **MySQL** to store and retrieve user data and recipes efficiently.

### SignNet [↗](#)

- Developed a **deep learning model** to classify traffic signs from images, using a **convolutional neural network** trained on a labeled dataset.
- Achieved 98% accuracy on GTSRB benchmark.

### CrossMind [↗](#)

- Built an **AI-driven crossword solver** leveraging a custom backtracking algorithm.
- Designed a flexible system capable of dynamically filling horizontal and vertical word slots while maintaining valid intersections across the grid.

### LogicMiner [↗](#)

- Developed an **intelligent AI agent** capable of solving Minesweeper using logic inference.

### TacTron [↗](#)

- Created an **unbeatable AI** capable of playing Tic-Tac-Toe optimally.

## CERTIFICATES

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- CS50's Introduction to AI [↗](#)