Idriss B.M.

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Summary

A motivated Computer Science student specializing in AI at ESPRIT Engineering School. Experienced in full-stack development with skills in Angular, TypeScript, .NET, Java, and SQL. Strong in refactoring code and building responsive applications.

Education

Carthage Dermech High School, Bachelor in Mathematics   2022

ESPRIT – School of Engineering ,B.S. in Computer Science, Specialization in AI   Sept 2022 – May 2027
- **Coursework:** Artificial Intelligence (deep learning, NLP, problem-solving), Machine Learning (supervised/unsupervised learning, neural networks, optimization), Data Structures & Algorithms (advanced algorithms, complexity), Computer Architecture (CPU design, memory hierarchies, performance)

Experience

Full Stack Web Developer Intern, Wecraft – Tunisia, Tunis   July 2023 – Aug 2023
- Refactored front-end code using TypeScript and Angular to improve performance and maintainability, reduced redundancy, and added new features to the legacy system.
- Refactored a backend database cleaning bot using Java and Quarkus to optimize database management and ensure data consistency.

Full Stack Web Developer Intern, Saphyr Consult – Tunisia, Tunis   June 2024 – July 2024
- Designed a full-stack web application for a questionnaire using Angular, TypeScript, .NET, and SQL Server, incorporating a fluid interface.

Projects

From Scratch Video Game using C / SDL
- Developed a 2D game using SDL, implementing delta time for smooth and consistent gameplay across different hardware. Integrated core game development technologies such as event handling, real-time rendering, collision detection, and frame-independent animations.
- Tools Used: Ubuntu, Cmake, C, SDL, Git, itch.io

Smart Physiotherapy Center with AI and IoT
- Built a C++ Qt application for a smart physiotherapy center integrating IoT for patient monitoring and session tracking.
- Integrated XAMPP + phpMyAdmin backend for real-time session management and database storage.
- Selected to represent the school at the local-level "Bal des Projects" event.
- Tools Used: C++, Qt, XAMPP, PHP, MySQL, AI (custom chatbot)

Children's Math Intelligence Evaluation App (AI-Powered)   2025
- **Goal:** Developed an intelligent assessment tool that analyzes children's math exercise sheets to detect **mathematical-logical intelligence** and evaluate the **creativity** and **correctness** of their answers using state-of-the-art AI.
- **Features:** Combined OCR, image classification, and LLM-based reasoning (LLaMA 3) to assess visual and written responses from children.
- **Output:** For each response, the system generates a report with fields: `{"correctness":  true/false, "creativity_score":  1-10, "explanation":  "..." }`.

- **Tools Used:** Python, PyTorch, HuggingFace Transformers, Qwen2-VL (OCR), LLaMA 3, PIL.
- **Data:** Based on exercises from the Tunisian Ministry of Education's official math workbooks.

Language, Skills and Certifications

Languages: English (Fluent), French (Fluent), Arabic (Fluent)

Programming Languages: C++, C, Java, SQL, JavaScript, PL/SQL, Python, PHP, GDScript

Technologies: .Net, Microsoft SQL Server, Express, Angular, Jupyter

Skills: Artificial intelligence, machine learning, Git, jupyter

Certifications: Fundamentals of Deep Learning by Nvidia ,Generative AI with Diffusion Models by Nvidia