

Marwani Wael

Position: IT Engineering Student | Full stack Developer
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Locations: Lyon, France



Professional Experience

Developer Intern

Deepway | France
Jun 2024 – Aug2024

- **Migrated** projects from **ATMEGA** to **STM32** microcontroller.
- Managed **UI/UX** development using **LVGL** and **TouchGFX libraries** to modernize the interface and improve user experience.
- Conducted an in-depth analysis of various **STM32** series microcontrollers and ESP32, comparing their memory capacity, speed, power consumption, and market availability.
- Configured microcontrollers using **STM32CubeMX** and **STM32CubeIDE**, ensuring optimal hardware and software setup.
- Integrated and tested **SPI** screen drivers (**ILI9225** and **ILI9341**) with microcontrollers, **troubleshooting** and overcoming compatibility issues.
- Executed detailed performance and power consumption tests, providing analysis and recommendations for optimal microcontroller usage.

Sports Reservation Web Application Developer

Esprit | Tunisia
Jan 2024 – May 2024

- Designed and developed an application for booking sports facilities using **Java**, **Symfony**, and **MySQL**, enhancing team management and process automation.
- Integrated search, sorting, ratings, and image-sharing features with **Symfony** and **MySQL** to provide a comprehensive and engaging user experience.
- Added functionality for competition organization, including registration and result tracking, utilizing **Java** and **JavaFX** to facilitate event management.
- Implemented a platform where property owners can list their fields and users can book easily through QR code and SMS, leveraging **Java** and **JavaFX** for seamless integration.

Technical Center Management Application Developer

Esprit /Tunisia
Jan 2023 – June 2023

- Developed a user-friendly interface and database for managing vehicle, client, and appointment data using **C++** and **Qt Creator**.
- Built a prototype incorporating RFID cards, sensors, and displays, controllable via **Qt Creator**.
- Conducted regular testing and debugging for stability, integrating **Arduino** and managing data with **Oracle** and **SQL**.

Insurance Intern | Insurance Operations

Assurances BIAT | Tunisia

June 2023 – Jul 2023

- Acquired strong data handling and visualization skills using **Power BI** and developed interactive dashboards for performance analysis.
- Contributed to process improvements and enhanced team collaboration.
- Strengthened problem-solving skills and effective communication of results.

Admission Support Intern

Esprit | Tunisia

Jul 2023 – Aug 2023

- Assisted in guiding students and streamlining the admission process for efficient registration.
- Ensured effective reception and quick follow-up of application files for smooth integration.
- Enhanced client service skills through on-site support and team collaboration.

Web Project Developer

Esprit | Tunisia

Nov 2023 – Dec 2022

- Designed a user-friendly web platform allowing users to sell, exchange, or donate furniture online, developed with **CSS**, **JavaScript**, and **PHP7**.
- Implemented a messaging system to facilitate user interaction and managed user data using **Oracle**.
- Enhanced platform navigation and functionality through **Visual Studio** for both front-end and back-end development.

Intern – Social Engagement and Development

Tunisie Telecom | Tunisia

Aug 2022 – Sep 2022

- Assisted in CSR projects and prepared reports aligning with company goals.
- Gained hands-on experience with telecom tools and network protocols.
- Strengthened teamwork and technical communication skills.

Game Developer

Esprit | Tunisia

Feb 2022 – May 2022

- Developed an intuitive user interface and robust game logic using **C** and **SDL** on **Ubuntu**, including event handling, animations, and collision detection.
- Created a custom game controller using **Arduino** to play the game, adding an interactive component to the project.
- Conducted regular testing and debugging to maintain stability and ensure seamless performance with **Arduino** integration.

Education

Master's Degree: National Engineering Degree in Computer Science

ESPRIT | Private Higher School of Engineering and Technology Tunisia

Sep 2021 – Jan 2026

High School Degree: Baccalauréat

Lycée Chebbi - Lycée Tajerouine El Kef | Tunisia

Sep 2016 – Jun 2020

Skills & Competencies

Technical Skills:

- **Programming Languages & Frameworks:** C, PHP, Java, JavaScript, C++, Spring Boot, Angular, Symfony, .NET, SQL
 - **Databases:** OracleDB,, MySQL, Firebase
 - **Version Control:** GitLab, GitHub, Gitea, Jira
 - **Design Tools:** Adobe Premiere Pro, Adobe Illustrator, Adobe Photoshop
 - **Methodologies:** Agile, Scrum
 - **Operating Systems:** Windows, Linux
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Languages

- **Arabic:** Native
 - **English:** Fluent, professional (C1)
 - **French:** Professional proficiency (B2)
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Certifications

- **Microsoft:** AI-900 Azure Artificial Intelligence
- **IBM:** Databases and SQL for Data Science with Python (Honors)
- **PM Coaching:** Project Management Advanced
- **Amazon Web Services (AWS):** AWS Cloud Technical Essentials
- **Amazon Web Services:** AWS Cloud Technical Essentials
- **DeepLearning.AI:** AI for Everyone

- **365 Data Science:** Data and Data Science
- **LinkedIn:** L'essentiel de Symfony 4
- **Coursera:** Fundamentals of Graphic Design
- **IBM:** Hands-on Introduction to Linux Commands and Shell Scripting
- **Cisco:** CCNAv7: Introduction to Networks
- **Cisco:** CCNAv7: Switching, Routing, and Wireless Essentials

Volunteer Experience

- **IEEE R8 Student & Young Professional Congress 2022 :**Member of the Web Team
- **IEEE (2022-2023):** Member
- **Tunivisions Foundation(2021-2022):** Member
- **JCI (2018-2020):** Graphic Designer
- **Tunisian Scout Association (2015-2020):** Team Lead