# Mohamed Yassine Khlaf

## Software Engineering Intern

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## Profile

I am a software engineering student punctual and motivated, with a strong passion for mobile and web development. Participating in extracurricular activities has equipped me with leadership skills. I am always eager for new experiences and currently seeking opportunities to apply my skills and make a positive impact.

## Education

- **Private School of Engineering and Technology (ESPRIT)**    Tunis,Tunisia |2023 - In progress
  *Bachelor of Science in Computer Engineering*
- **Higher Institute of Computer Science and Management of Kairouan (ISIGK)**    Kairouan,Tunisia |2020-2023
  *Bachelor of Science in Computer Science*
- **Ibn Khaldoun Kairouan Private High School**    Kairouan,Tunisia |2016-2020
  *Baccalaureate in Experimental Sciences*

## Experinece

**Vision Age VFX**    Sousse,Tunisia | 07/2025 - 10/2025
*FULL STACK MOBILE DEVELOPER (INTERNSHIP)*

- Built IQRAA: **Flutter** app with **NestJS** backend using **Firebase Auth**, **Firestore**, **Storage**, and **FCM**.
- Delivered video feed, reciter profiles, chat with invitations, predefined encouragements/donations.
- Implemented **map search**, public/VIP events, booking calendar, and user claims with attachments.
- Shipped a documented **REST API** (**Swagger**) with RBAC guards and strict **DTO** validation.
- Ensured security with **Firebase rules**, **token** cleanup, error handling, and structured logging.

**Private School of Engineering and Technology (ESPRIT)**    Tunis,Tunisia | 07/2024 - 09/2024
*FULL STACK MOBILE DEVELOPER (INTERNSHIP)*

- Utilized the **MVC** architecture to structure the application, enhancing maintainability and scalability.
- Built the backend with **Node.js** and **Express.js**, interfacing with **MongoDB** for robust data management.
- Implemented the frontend using **Flutter**, **Gemini API**, ensuring a responsive and user-friendly interface.

**ETC Tunisia**    Kairouan,Tunisia | 02/2023 - 05/2023
*FULL STACK WEB DEVELOPER (INTERNSHIP)*

- Created a **Python-based** chatbot with ChatterBot for faster customer service.
- Used **UML** and **waterfall methodology** for structured development..
- Employed **Flask** and **SQLite** for secure server and database management.
- Implemented the frontend using **React Js,CSS** and **HTML** , ensuring a user-friendly interface.

## Technical Skills

**PROGRAMMING LANGUAGES :** Java , Javascript, Type Script ,Python, C/C++
**FRONT-END TECHNOLOGIES :** ReactJs, CSS, HTML , Jetpack compose , Swift UI , Flutter
**BACK-END TECHNOLOGIES :** SpringBoot, Node Js, Nest Js , Express Js , .NET CORE
**DEV TOOLS :** Git, Docker, Trello,Notion
**DATABASES :** MySQL, SQLite, PostgreSQL, FireBase, MongoDB

# Projects

- **Gami** *[ Symfony,PHPMyAdmin,JavaFX,Maven ]*
Developed 'Gami,' a dual-platform service tailored for gaming enthusiasts, featuring web and desktop versions.

- **VIBY** *[ Node.js, Nest.js, MongoDB, Jetpack Compose, SwiftUI ]*
Created 'Viby,' a mobile app designed for music creation, editing, and sharing, catering to both amateur and professional musicians.

- **MSAware** *(1st Prize at the Esprit 2025 Projects Ball)* *[ Flutter, Python, Node.js, Nest.js, MongoDB ]*
Developed MSAware, a mobile app that helps MS patients predict relapses and manage health data with AI features. Led the creation of a user-friendly interface and scalable backend, boosting support for global users .

- **CarthaGreen** *[ Flutter, Dart, NestJS, MongoDB, JWT, MVVM, RESTful API, MQTT ]*
Developed a comprehensive mobile application for smart hydroponic systems using Flutter for the frontend and NestJS with MongoDB for the backend. Implemented real-time sensor monitoring, device control capabilities, and data visualization features to help users optimize their hydroponic cultivation.

- **IQRAA** *[ Flutter, NestJS, Firebase, Stripe, NodeJS, MVVM, RESTful API ]*
Quran recitation platform , short-video feed, profiles, chat, predefined encouragements/donations, map search, event booking (public/VIP), claims, and real-time push notifications; API documented with Swagger and secured via RBAC.

- **PetConnect** *[ Next.js, TypeScript, MongoDB, JWT, Tailwind CSS, PWA, Service Workers, Vercel ]*
Built a comprehensive Progressive Web App for pet care management featuring health tracking with vaccination  reminders, personalized nutrition plans, interactive education modules, and AI-powered adoption matching.  Implemented offline capabilities, responsive design, and service workers for native-like experience across all devices.

- **Airport Management System** *[ .NET 8.0, C#, Entity Framework Core, LINQ, SQL Server, LocalDB ]*
Developed a comprehensive airport operations management application implementing OOP principles, LINQ queries,  and Entity Framework Core. Architected multi-layered solution with domain models (Passenger, Flight, Plane),  business services, and data persistence. Implemented inheritance strategies (TPH/TPT), Fluent API configurations,  and lazy loading for optimized database operations.

# LANGUAGES

**ENGLISH:** Fluent          **FRENSH:** Fluent          **ARABIC:** Native

# LEADERSHIP & SOCIAL IMPACT                      **Tunivions | 2018 - 2023**

- Held key leadership roles in Club Tunivisions at ISIG Kairouan and Ibn Khaldoun Kairouan Private High School from 2018 to 2023, advancing from Vice President of Finance to President.
- Developed financial strategies, led fundraising initiatives, and drove recruitment and training programs while spearheading community outreach to boost the club's campus visibility and impact.