



# Mahdi BEN AMOR

Software Engineer

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## Technical Skills

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### Backend

.net Core, .net Framework, Unity, NodeJs, Spring Boot, Flask

### Frontend

Angular, Ionic, Flutter, Xamarin

### Langages

C#, Python, Typescript, Javascript, Dart, Java.

### Méthodologies

UML, Design Patterns (Mediator, stratégie, CQRS...), Clean Architecture

### SGBDR

MySQL, PostgreSQL, MongoDB et SQL Server, GraphDB.

### Systèmes

Linux, Windows.

## Professional Experience

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Since 12/2022

**Luxembourg Institute of Science and Technology**

**FULLSTACK DEVELOPER**

### Project : Deema

The project aims to develop a data-driven computational approach and an open innovation platform fostering collaboration, where individuals can connect to innovate together. The platform enables participants to leverage data, share results, and promote continuous incremental innovation.

#### Tasks:

- Redesign of the application to optimize data flow and loading times (frontend and backend).
- Development of new feature.
- Participation in daily meetings.
- Planning the project roadmap.
- Conduct Angular, NodeJs, and Docker training sessions for 4 colleagues.
- Assisting team members in overcoming technical challenges

Technologies : MongoDB, Docker, Material UI, Typescript, Python, Angular, Rabbitmq, Kafka, AzureDevops.

Since 12/2023

**FAST SYNC**

**DEVELOPPEUR FULLSTACK | DEVELOPPEUR MOBILE**

### Project : FastSync

A revolutionary solution that redefines database synchronization, reduces the hassle of API configuration, and allows you to focus on what matters most modifying and updating your entities with ease.

Git-like simplicity: Imagine database synchronization as simple as push and pull operations, thanks to our Git-inspired approach. No more complex processes—just smooth synchronization between the server and the client.

#### Tasks:

- Implementing the solution using clean architecture.
- Designing a data synchronization solution between client and server.

- Implementing key functions like pull(), push(), and sync() for efficient data management.
- Implementing unit tests.
- Managing conflicts with strategies such as Last Writer Wins and timestamp ordering.
- Performance optimization through delta synchronization and latency reduction.
- Multi-technology support (TypeScript, .NET, Dart) and extensibility for different data access methods
- Designing and developing server-side packages for various backends (TypeScript, .NET, MySQL, MongoDB, Entity Framework).
- Developing client-side packages for data synchronization (TypeScript, Flutter, .NET, SQLite, Hive, in-memory database).
- Ongoing maintenance of packages with bug fixes.
- Performance optimization and adding new features based on user feedback.

Technologies: .Net 8, C#, Entity framework, Typescript, NodeJs, SQL Server, MongoDB, Dart, Hive, Sqflite, GitHub, principes SOLID.

**01/2020– 12/2023**

**Exepnsya by Medius**

**DEVELOPPEUR FULLSTACK .NET | DEVELOPPEUR MOBILE**

### **Project : Expensya**

Worked in a team of 8 developers to build and maintain the product (mobile application).

**Expensya** is a cloud-based expense management solution automating the process of tracking, submitting, and reimbursing business expenses, integrating AI features for receipt recognition, and offering a complete solution for companies with accounting software integration.

### **Tasks:**

- Mobile Migration: **Xamarin to Flutter**
  - ✓ Choosing the appropriate technology for migration.
  - ✓ Writing technical specifications.
  - ✓ Planning the project roadmap.
  - ✓ Developing the foundation of the new mobile app.
  - ✓ Implementing the clean architecture pattern.
  - ✓ Ensuring testability and maintainability of the app.
- Maintaining the old app:
  - ✓ Refactoring codebase for performance optimization.
  - ✓ Adding more features to the app.
  - ✓ Enhancing unit test coverage.
  - ✓ Troubleshooting and debugging to improve app quality.
  - ✓ Designing UI/UX to improve user experience.
  - ✓ Monitoring application health.
- Backend development and maintenance :
  - ✓ Setting up APIs.
  - ✓ Adding more features to the application.
  - ✓ Improving unit test coverage.
- Conducting recruitment interviews and pre-screening candidates.
- Managing customer tickets and critical bug fixes (Spiceworks, TFS).
- Monitoring alerts and exception management (ApplicationInsight, Sentry, Appcenter).

Technologies: .Net Core, C#, LINQ, Flutter, Dart, RxDart, SQL Servervisual studio 2019, principes SOLID.

**03/2021– 09/2021**

**TrackMe**

**DEVELOPPEUR FULLSTACK | Freelance**

**Project: TrackMe**

Created a mobile app that tracks the real-time location of connected device.

**Tasks:**

- Developed an advanced mobile app with Flutter
- Applied best practices for the MVVM pattern in Flutter
- Designed a modern, responsive UI using RxDart

**Technologies :** Flutter, Dart, Rxdart, SQflite, leaflet, Git, Traccar.

## **Internships**

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**02/2020– 07/2020**

**Sofrecom**

**DEVELOPPEUR Full Stack**

**Project : Paddock**

Developed a web application for the internal team "Paddock" to automate the client onboarding and billing processes.

**Tasks:**

- Designed and created web interfaces
- Used private REST APIs to automate manual processes
- Created and deployed a microservice architecture as backend
- Secured the solution using JWT and Auth0
- Deployed on local servers

**Technologies:** SpringBoot, SpringCloud, Java, Angular, Git

## **Education**

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**2017 - 2020**

Higher School of Communication of Tunis (Sup'Com): Specialization: Computer Networks and Telecommunications – **Data Science**

**2015 - 2017**

Preparatory Institute for Engineering Studies of Sfax (Rank: 181/3300)

## **Languages**

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**English**

Bilingual.

**French**

Professional Proficiency