Saïd Amokrane BELGACEM

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Professional Summary

Mid-Senior Full Stack Developer with proven experience designing, developing, and deploying production-ready web, mobile, and desktop applications. Specialized in building scalable SaaS platforms and offline-first applications with reliable data synchronization, emphasizing clean architecture, maintainability, and performance optimization.

Technical Skills

Back-end Development: PHP, Laravel, Node.js, Fastify, REST APIs, modular architecture, authentication, and access control.
Front-end Development: React, Next.js, TypeScript, JavaScript, Vite, Tailwind CSS, shadcn/ui, React Query, Recharts, Three.js.
Mobile and Desktop Development: React Native, Electron, cross-platform applications, hardware integration.
Databases: MySQL, PostgreSQL, SQLite, WatermelonDB, data modeling, migrations, and data integrity.
Architecture and Systems: SaaS, multi-tenancy, Offline-First architecture, data synchronization, asynchronous processing, queues and jobs, Socket.IO.
Deployment and DevOps: Linux server administration, Ubuntu Server, Nginx, CI/CD, GitHub Actions, Cloudflare.
Tools and Methodologies: Git, GitHub, GitLab, Jira, Scrum, Agile methodologies, and AI-assisted development tools.

Experience

Full Stack Developer, Full Time - Remote — **Amalyet** | August 2025 – Present

Development and Maintenance of Tesymo – Association Management SaaS Platform

Development and maintenance of an ERP platform covering human resources, budgeting, governance, and invoicing, using Laravel and React.

- Development of administrative project management, member classification, and time-tracking features, including automated attendance balance calculations.
- Implementation of role-based approval workflows for HR and boards of directors, along with automated operational controls (OCA).
- Consolidation of the contact data model, migration of existing records, and development of custom Artisan commands for data migration and maintenance.
- Maintenance of the shared application core and propagation of updates across client instances, including permission synchronization and deployment documentation.
- Implementation of automated tests using PHPUnit.

Development of ETD – Building Energy Analysis Application

Design and development of a building energy monitoring application from scratch, combining a Laravel API with a React and TypeScript frontend.

- Development of the frontend using React, Vite, Tailwind CSS, shadcn/ui, and React Query, with geolocation features powered by Mapbox.
- Modeling of building energy systems, including boilers, ventilation systems, and meters, with complex forms and strict validation rules.
- Implementation of asynchronous energy consumption normalization and climate adjustment calculations based on heating and cooling degree days (HDD/CDD).
- Development of interactive dashboards using Recharts to monitor energy performance indicators, consumption costs, and CO_2 emissions.

Full Stack Developer, Full Time - Remote — **Sarl Medj distribution** | January 2024 – July 2025

Development of a Distribution Management ERP

To meet the management needs of a distribution company using an outdated solution, I joined the team as a full-stack developer. My versatility allowed me to work on all aspects, both backend and frontend of the ERP, before becoming responsible for the development of the mobile application. Here are the tasks I carried out:

- User management on the backend and securing requests via a roles and permissions system.
- Implementation of a design pattern by adopting an architecture aimed at lightening controllers, ensuring robust and scalable code.
- Data synchronization and offline request processing in the backend, ensuring data integrity in limited connectivity conditions.
- Development of a mobile application with React Native for sales agents (delivery and salesmen) in online/offline mode, integrating features such as order and delivery management, printing of receipts, customer geolocation, sorting customers by proximity, and processing large amounts of data.
- Participation in meetings for the structuring of the data model, adding features, defining the workflow, as well as participating in presentations by explaining the functionalities to the solution's investors.

Full Stack Developer, Full Time - Onsite **White Bay Limited** | January 2023 – December 2023

Revamping of a B2B E-commerce Site on PrestaShop

I was tasked with revamping the B2B e-commerce site to modernize an existing platform, respond to new trends, add features, and fix existing bugs. My work included the following actions:

- Integration and modification of PrestaShop modules (handling Symfony) to meet the client's specific needs, such as managing promotions, customer-specific pricing, and cart management.
- Migration of a C# connector linking their management ERP (Sage) to the old database of PrestaShop 1.7, to version 8.
- Customization of the template design in alignment with the client's branding guidelines.

Development of a Production Management ERP

As a junior developer freshly hired after my internship at this company, I joined the team responsible for the frontend development of a production ERP.

The tasks assigned to me were as follows:

- Adapting the existing workflow and translating the design template into concrete pages with integrated functionalities.
- Displaying loader success and error messages to ensure a smooth user experience.
- Integration of APIs on the frontend, optimizing requests to handle large amounts of data.

Transforming a Car Rental Site into a SaaS Solution

During my PFE (Final Year Project) internship, the goal was to transform a car rental site, initially designed for a single company, into a SaaS solution managing multiple rental companies with their respective clients. The challenge was to understand the existing site through reverse engineering to ensure migration to a SaaS while maintaining functionality. I conducted a study to understand how SaaS works in Laravel, focusing on multitenancy. Here are the results of this study:

- Separation of databases between the landlord (SaaS admin) and the databases of the users (entity admins).
- Manipulations on Apache for creating subdomains and pointing them to the database of each entity. Code modification to include the multitenant architecture, directing each entity to its database with its respective queries.
- Setting up queues and jobs to ease the process of creating a new entity, without compromising the site usage.
- Development of an admin interface on the frontend to allow entity customization, as well as a mobile application associated with this entity.

Full Stack Developer, Intern - Remote **Intic Hosting** | December 2021 – April 2022

Development of a Commercial Social Network

Development of a web and mobile online sales platform with social network features such as instant messaging and stories.

Full Stack Developer, Intern - Onsite **Revexn** | November 2020 – February 2021

Development of an E-commerce Site

Creation of an e-commerce site including an order management system with confirmation and processing.

Personal and Freelance Projects

Talyo — (Freelance) | *Laravel, React, Electron, Next.js, WatermelonDB*

- Developed a comprehensive CRM platform comprising a modular API, web application, administrative back office, and Electron-based desktop point-of-sale software.
- Designed an Offline-First architecture to support local operation and data synchronization when connectivity is available.

HakimPilote — (Freelance) | *Electron, React, Node.js, Fastify, SQLite*

- Developed medical practice management software designed to operate on a local network.
- Implemented patient records, customizable prescriptions, a waiting-room management system using Socket.IO, and automatic software updates.

Portail Talents — (Freelance) | *Next.js* | portailtalents.ca

- Developed a recruitment platform connecting job seekers with employment opportunities through a modern, responsive web interface.
- Contributed to building an accessible and user-friendly experience to facilitate job searching and recruitment processes.

Jarvis Gym — (Personal) | *React, Three.js, React Three Fiber* | gymjarvis

- Developed an interactive 3D anatomical visualizer for fitness applications, allowing users to select muscle groups and explore their three-dimensional representation.
- Optimized 3D rendering and user interactions to deliver a responsive experience.

Education

CESI EXIA - School of Computer Science , Software Engineering Information Systems 2018 - 2023

Preparatory School of Science and Technology, L2 Sciences and Technologies 2015 - 2017

Lycée Maraval, Baccalaureate in Exact Sciences 2015

Languages

Arabic: Native | **Kabyle:** Native | **French:** Fluent | **English:** B2 | **Spanish:** Basic