# SOFIANE AFIR

**Software Engineer**

Algiers, Algeria · Email: **sofiane_afir@live.fr** · LinkedIn · GitHub · fianso98.github.io

## PROFESSIONAL PROFILE

Software Engineer with 4+ years of professional experience, primarily specialized in **Node.js**, **TypeScript, NestJS** and **reactJs**, developing production backend systems for consumer and enterprise applications. Currently working as an offshore engineer for a French group on healthcare and service-oriented platforms handling sensitive personal and healthcare-related data. Experienced in microservices architectures, Microsoft Azure, REST APIs, data synchronization, role-based access control, background processing and production support. Comfortable working in Agile/Scrum environments with a focus on code quality, maintainability, reliability and collaboration. Backend-focused, with additional experience integrating React and administrative interfaces.

## TECHNICAL SKILLS

**Backend:** Node.js · TypeScript · NestJS · Express.js · REST APIs · Microservices · RBAC

**Databases:** PostgreSQL · MongoDB · Redis · MySQL

**Cloud & Infrastructure:** Microsoft Azure · Azure Functions · Azure Service Bus · Azure API Management · Docker · CI/CD · Azure DevOps

**Architecture:** Nx monorepo · Microservices · Event-driven systems · Distributed systems · API integrations

**Frontend:** React · Redux Toolkit · RTK Query · Material UI · JavaScript · jQuery

**Testing & Quality:** Jest · Automated testing · TDD · Code reviews · Coding standards

**Other:** PHP · Laravel · Flutter · Socket.IO · Stripe · Mangopay · Mondial Relay · FFmpeg

## PROFESSIONAL EXPERIENCE

### AVENTIQUE | Software Developer / Software Engineer

Algeria · February 2022 – Present

**Client Assignment — Clariane (OFFSHORE)** | Lead Developer / Software Engineer
February 2024 – Present

Offshore engineering assignment supporting healthcare and service-oriented applications for a French group, including backend services and administrative applications used by healthcare facilities and their staff.

- Designed, implemented and maintained backend services using Node.js, TypeScript and NestJS within a microservices architecture.
- Developed and optimized REST APIs, business logic and data-access layers supporting production mobile and web applications.
- Worked on data synchronization between internal and external systems, including resident and facility-related information.
- Implemented and maintained role-based access control, user and facility administration, and application feature management.
- Developed asynchronous and background-processing workflows using cloud services and messaging mechanisms.
- Worked with PostgreSQL, MongoDB and Redis for application data, queries, caching and synchronization workflows.
- Contributed to Microsoft Azure infrastructure, including Azure Functions, Service Bus, API Management, Key Vault and Container Apps.
- Used Datadog, application logs and distributed-service diagnostics to monitor and troubleshoot production systems.
- Contributed to React-based back-office applications for administrative workflows, including feature flags and resident synchronization.
- Collaborated with frontend, mobile and backend developers to integrate APIs and deliver end-to-end functionality.
- Participated in Agile/Scrum activities including planning, refinement, implementation, testing and delivery.

- Conducted code reviews, followed coding standards and contributed to refactoring and maintainability improvements.
- Supported production stability by investigating and resolving issues across services, databases, APIs and integrations.

**Selected Clariane projects**

**Korall —** Resident stay and administration platform managing resident stays, billing and payments, contracts and document generation, financial assistance, and resident contact information. As Lead Developer, for both backend and frontend development, technical architecture, feature implementation, technical decisions, code reviews, and coordination of development activities

**Korian Family —** Backend services connecting residents, families and caregivers across healthcare facilities in France, with secure APIs and user-facing mobile functionality.

**Petits-fils —** Backend functionality for a home-care mobile application, including scheduling, notifications, time tracking and payroll-related integrations.

**OhActiv —** Backend services supporting senior activity planning and data delivery for end users.

**E-lio —** Backend development and microservice integrations for healthcare and service applications and mobile interactions.

**Koala —** Backend services for a digital companion application for healthcare and assisted-living employees, supporting administrative tasks, quality procedures and information sharing across facilities.

## Aventique — Internal Projects

Software Developer · February 2022 – January 2024*

### BYMOV | 9 months

- Developed backend APIs for a social platform for buying and selling second-hand fashion.
- Implemented account management, posts, video uploads, thumbnails, descriptions, pricing, likes, comments, messaging, notifications and email workflows.
- Integrated Socket.IO for real-time messaging, Mangopay for payments and Mondial Relay for delivery.
- Implemented scheduled/background jobs for payment and order workflows and video processing using FFmpeg.
- Built and maintained a web back-office for user and post management using Bootstrap and jQuery.

**Technologies:** PHP · Laravel · Eloquent · Jobs · Events · Notifications · Mangopay · FFmpeg · Node.js · Socket.IO · Bootstrap · jQuery · MySQL

### KOOM | 8 months

- Developed backend functionality for a subscription-based mobile application offering daily drinks at partner establishments.
- Implemented user accounts, partner management, subscriptions, events and business logic.
- Integrated Stripe for subscription/payment workflows.
- Contributed to the Flutter mobile application, including push notifications, Google Maps and payment-related functionality.
- Built a web back-office for managing partners, events, benefits and subscriptions.

**Technologies:** PHP · Laravel · Eloquent · Jobs · Events · Notifications · Stripe · Vue.js · Livewire · Flutter · MySQL

### SocialMedia | 3 months

- Enhanced NestJS backend APIs for posts, messaging, friend requests, comments, likes and profile management.
- Implemented real-time messaging using Socket.IO.
- Developed the messaging frontend in React.
- Explored CI/CD practices for development and deployment.

**Technologies:** Node.js · NestJS · Socket.IO · React · TailwindCSS · MySQL

### TBWA | 2 months

- Maintained a web platform for collecting, filtering and distributing curated news articles and newsletters.
- Fixed scraping issues and improved article collection reliability.
- Added tags and categories for article filtering.

- Implemented background media-upload processing.

**Technologies:** PHP · Laravel · Symfony Scraper · Eloquent · Jobs · Events · Notifications · Livewire · MySQL

## EDUCATION

**MASTER'S DEGREE IN SOFTWARE ENGINEERING**
Saad Dahlab University — Blida 1 (SDUB), Blida, Algeria
September 2016 – June 2021

**WES Educational Credential Assessment:** Canadian equivalency — Master's degree.

## LANGUAGES

**Arabic —** Native
**French — C1** written comprehension & oral expression; **B2** oral comprehension & written expression — TEF Canada
**English — B2** — IELTS