

# Skills Portfolio

BEN MANSOUR MANSOUR

**Full Stack Engineer / Ingénieur Full Stack**

## Introduction

My name is **Mansour BENMANSOUR**, a passionate **Full Stack Engineer** specializing in building scalable, high-performance web applications. I hold a degree in **Multimedia and Web Development** from **ESPRIT (École Sup Privée d'Ingénierie et de Technologies)**, where I graduated with **high distinction** in 2023. Since then, I have gained over **2 years of professional experience** across both remote and on-site environments, working with modern stacks such as **Next.js, Node.js, GraphQL, Supabase, and SQL Server**. My goal is to deliver impactful digital solutions that align with business needs while maintaining clean architecture, performance, and long-term scalability.

## Skills

- **Programming Languages:** JavaScript, TypeScript, Python, SQL, Java, Bash
- **Backend Frameworks:** Node.js, Express, Django, Flask, Spring Boot
- **Frontend Frameworks:** React, Next.js, Angular, Vue.js
- **Databases:** MongoDB, PostgreSQL, MySQL, Redis
- **Development Tools:** Git, Docker, Nginx, Webpack, GraphQL, Jest, AWS, Kubernetes, CI/CD pipelines (GitHub Actions, Jenkins)
- **APIs and Payment Integrations:** REST APIs, PayPal, Stripe, APS, NextAuth, OAuth
- **CSS Frameworks:** Tailwind CSS, Bootstrap, Material-UI
- **Other Skills:** Elasticsearch, RabbitMQ, WebSockets, Microservices architecture

## Professional Experience

### Technical Lead (ERP Development) - Admission

*June 2025 – Present — Tunis, Tunisia*

- **Full System Architecture:** Designed and implemented complete ERP system using [Next.js 15 \(App Router\)](#), [Node.js](#) backend, and [Microsoft SQL Server](#), creating a scalable enterprise solution.
- **Development Leadership:** Lead developer overseeing code reviews, task assignments, and technical decisions while handling advanced development tasks.
- **Deployment Automation:** Established automated CI/CD pipelines, server configuration, and monitoring systems.
- **Client Relations:** Primary technical contact for requirements gathering and product demonstrations, translating business needs into technical specifications.
- **Team Coordination:** Managed collaboration through [GitHub](#) and [Discord](#):
  - Implemented channel notifications and automated alerts
  - Provided technical guidance and mentoring
  - Coordinated meetings and documentation
  - Enforced code review workflows
- **Process Implementation:** Introduced Agile methodologies with daily standups and sprint planning.
- **Technical Presentations:** Delivered system presentations to both technical and non-technical stakeholders.
- **Performance Optimization:** Improved system performance by addressing frontend/backend bottlenecks.

## Full Stack Developer (DevOps Focus) - BeBouncy

February 2024 – April 2025 — La Marsa, Tunisia **Project:** Social Media Management Platform — **Team:** 10-member cross-functional team

- **Platform Overview:** Developed comprehensive solution enabling content creators to:
  - Manage posts/comments/likes across Facebook, Instagram, YouTube, LinkedIn
  - Track performance analytics for multiple connected pages
  - Schedule and bulk-publish content with approval workflows
- **DevOps Transformation:**
  - Modernized infrastructure from manual SSH to fully automated deployments
  - Implemented Docker-based isolation for social media API integrations
  - Developed rate-limiting system to prevent platform blacklisting
- **Key Technical Achievements:**
  - **CI/CD Pipeline:** Reduced deployment time from 15min → 3min (80% improvement)
  - **Multi-Platform Integration:** Unified API layer for 4 social networks
  - **Data Processing:** Handled 50K+ daily events with Redis caching
- **Core Technical Stack:**
  - **Frontend:** Next.js 14, Redux Toolkit, Chart.js
  - **Backend:** Node.js 18, Express, BullMQ
  - **Infrastructure:** Docker, Portainer, GitHub Actions
- **Business Impact:**
  - Enabled centralized management of 5+ social accounts
  - Reduced content scheduling time by 60% through batch processing
  - Implemented compliance features for platform API usage limits
- **Technical Leadership:**
  - Upgraded Node.js 12 → 18 and Next.js 11 → 14.5 with zero downtime
  - Implemented Stripe payment processing (one-time + subscriptions)
  - Identified 40% performance optimization opportunities through audits
- **Frontend Development:**
  - Built Next.js frontend with Redux state management
  - Optimized production builds using Webpack
  - Reduced bundle size by 35% via code splitting
- **Cross-Team Collaboration:**
  - Translated marketing requirements into technical specifications
  - Worked with designers on UI implementation (Figma → React)
  - Mentored junior developers on Git workflows and deployment procedures

## Sikka Software

Full Stack Developer — August 2022 – Present — Remote

### Tanad.app - Plateforme ERP/Facturation Entreprise Complète

tanad.app

Mai 2025 – Présent

- **Architecture Technique & Innovation:** Conception d'une solution ERP modulaire et complète, spécialement adaptée au marché saoudien :
  - **Design modulaire avancé** : Système d'activation/désactivation de modules (40+ modules) permettant une personnalisation complète selon les besoins métier
  - **Architecture multi-locataire** avec isolation des données via Row Level Security (RLS) [PostgreSQL](#)
  - **Synchronisation temps réel** entre multiples entrepôts et branches via [WebSocket](#) et Supabase Realtime
  - **Journalisation complète** de toutes les transactions financières et mouvements de stock avec audit trail
- **Modules Fonctionnels Développés:**
  - **Gestion Financière** : Système de facturation électronique, devis, comptes clients/fournisseurs
  - **Ressources Humaines** : Gestion employés, recrutement, paie, départements et postes
  - **Gestion Opérationnelle** : Multi-entrepôts, catalogue produits, achats, véhicules
  - **Administration** : Multi-succursales, rôles/permissions, actifs fixes, analytiques
- **Conformité Réglementaire ZATCA:** Développement d'une solution conforme à la réglementation saoudienne incluant :
  - Implémentation complète des standards [UBL 2.1](#) pour ZATCA Phase 2
  - **Horodatage cryptographique** des factures répondant aux exigences FATCA
  - **Reporting automatisé** vers le portail ZATCA via API gouvernementales
  - **Génération de codes QR TLV** contenant toutes les informations fiscales requises
  - Validation automatique de la conformité des factures
- **Stack Technique Moderne:**
  - Frontend développé avec [Next.js 15](#) utilisant l'architecture App Router et [TypeScript](#) strict
  - Backend : API RESTful + [GraphQL](#) fédéré, [Node.js](#) avec microservices
  - Base de données : [PostgreSQL](#) avec Supabase, politiques de sécurité au niveau des lignes
  - Déploiement : Containerisation [Docker](#), déploiement via Coolify sur VPS
- **Innovations Techniques:**
  - **Performance & Scalabilité** : Architecture microservices, cache intelligent, notifications temps réel
  - **Sécurité** : Chiffrement bout en bout, MFA, audit trail complet, conformité standards internationaux
  - **Interface multilingue** (Arabe/Anglais) adaptée au marché GCC

## Pukla (All-in-One Link Management Platform)

puk.la

Sep 2023 – Feb 2024

- **Core Platform Features:** Developed a comprehensive link management solution with tiered functionality:
  - **Free Tier:**
    - \* Basic link management with drag-and-drop organization
    - \* Standard analytics (click counts, referrers)
    - \* Limited theme customization options
  - **Pro Tier ([Stripe](#) Subscription):**
    - \* Advanced analytics with geographic heatmaps and device breakdowns
    - \* Custom domain support with SSL certification
    - \* Priority support and early access to new features
  - **Enterprise Tier:**
    - \* White-label solutions with custom CSS/JS injection
    - \* Team collaboration features with role-based permissions
    - \* API access for programmatic link management
- **Payment System:**
  - Implemented [Stripe](#) integration supporting:
    - \* Recurring subscriptions with prorated upgrades/downgrades
    - \* Multiple payment methods (credit cards, Apple Pay, Google Pay)
    - \* Automated invoice generation and dunning management
  - Custom billing portal for plan management and payment history
  - Webhook handlers for subscription lifecycle events
- **Technical Architecture:**
  - Monorepo structure using [PNPM workspaces](#) with:
    - \* Shared TypeScript configuration across packages
    - \* Dedicated packages for UI components, utilities, and API types
    - \* Isolated test environments for each subsystem
  - Frontend built with:
    - \* [Next.js 14](#) with App Router for file-based routing
    - \* [shaden/ui](#) component library with Radix primitives
    - \* [Framer Motion](#) for performant animations and micro-interactions
  - Backend services:
    - \* [Supabase](#) PostgreSQL with row-level security
    - \* Redis caching for high-traffic endpoints
    - \* Rate limiting and abuse protection
- **Design System:**
  - Micro-interactions throughout UI:
    - \* Smooth transitions between route changes
    - \* Hover effects on interactive elements

- \* Loading skeletons for async content
- Custom animation presets for:
  - \* Modal appearances/disappearances
  - \* Form submission states
  - \* Notification toasts
- Responsive design supporting:
  - \* Mobile-first layout approach
  - \* Adaptive component sizing
  - \* Reduced motion preferences
- **Developer Experience:**
  - Comprehensive development tooling:
    - \* Hot module replacement for immediate feedback
    - \* Visual regression testing setup
    - \* Storybook documentation for UI components
  - Deployment infrastructure:
    - \* Preview deployments for every Git branch
    - \* Automated database migrations
    - \* Rollback capabilities for failed deployments

## Laz.im (Enterprise URL Shortener)

laz.im

- **Technical Architecture:**

- [Next.js 14](#) (App Router) with:
  - \* [shadcn/ui](#) component library
  - \* Edge Runtime for global redirects
  - \* Incremental Static Regeneration for dashboards
- [Supabase](#) backend featuring:
  - \* PostgreSQL with row-level security
  - \* Realtime subscriptions for analytics
  - \* Built-in authentication

- **Payment System:**

- [Stripe](#) integration handling:
  - \* Usage-based billing (clicks/month)
  - \* Team seat management
  - \* [Subscription](#) webhooks with Supabase Functions
- PCI-compliant billing portal
- Promo code system with referral tracking

- **Core Features:**

- Real-time analytics dashboard:
  - \* Geographic heatmaps
  - \* [Device](#) and browser breakdowns
  - \* UTM parameter tracking
- Custom domains with SSL
- API access with rate limiting

- **Developer Experience:**

- Monorepo with [PNPM workspaces](#)
- Automated testing pipeline
- Preview deployments for all branches

## Payment Orchestration Platform

- **Payment Processing:** Created a unified payment hub supporting:
  - Multiple gateways including [Stripe](#), [PayPal](#), and regional providers
  - Both one-time and recurring payments
  - Automated reconciliation of bank transfers
  - Smart routing to optimize payment success rates
  - Seamless accounting system integration
- **Technical Architecture:**
  - [GraphQL](#) API gateway abstracting provider differences
  - Idempotent transaction processing with retry logic
  - Comprehensive webhook handling system
  - Subscription lifecycle management
- **Security Measures:**
  - PCI DSS compliant architecture with encrypted sensitive data
  - JWT token rotation and strict session management
  - Regular third-party security audits
  - SOC 2 Type II certified infrastructure



## Education

### Engineering in Computer Science (TWIN)

**Esprit**, Ariana - El Ghazala

*2020 – 2023*

- Graduated with a focus on **Full Stack Development**, including extensive training in both **front-end** and **back-end** technologies.
  - Engaged in various projects, emphasizing practical applications of **computer science** theories in real-world scenarios.
  - Developed skills in **team collaboration**, **project management**, and **software development lifecycle**.
- 

### Degree in Multimedia and Web Development

**Institut Supérieur des Etudes Technologiques de Djerba**, Iset Djerba - Midoun

*2017 – 2020*

- Acquired foundational knowledge in **web technologies**, **design principles**, and **multimedia applications**.
- Worked on several projects that integrated **multimedia elements** into **web applications**, enhancing user experience.
- Participated in **workshops** and **training sessions** focused on the latest trends in **web development** and **design**.

## 1 Papiers / Documents

### Certificate of Employment



## Certificate of Employment

This is to certify that

**Mansour BenMansour**

Has been employed in

**Sikka Software**

(مؤسسة سكة الأفكار لتقنية المعلومات)

As

**Full-stack Developer**

*From September 2022 up to the present*

This certification is being issued upon the request of the aforementioned name  
for whatever lawful purpose it may serve.

Issued on this

**28th day of May 2025**

**Zakher M. Masri**

Chief Executive Officer  
Sikka Software



## Engineering Degree

Issued by Esprit, 2023



## Contact

- **Email:** ✉ [mansour.benmansour@esprit.tn](mailto:mansour.benmansour@esprit.tn)
- **Phone:** ☎ +216 29 598 701
- **LinkedIn:**  [linkedin.com/in/mansour](https://linkedin.com/in/mansour)
- **GitHub:**  [github.com/BenMansour](https://github.com/BenMansour) Mansour