Rayen Arfa

Date of birth: 5 Sep 2002 | **Nationality:** Tunisian | **Gender:** Male | **Phone:** (+216) 98467506 (Mobile) | **Email address:** contact@rayenarfa.com | **Website:** https://www.rayenarfa.com | **LinkedIn:** https://www.linkedin.com/in/rayenarfa/ | **Whatsapp Messenger:** +21698467506

ABOUT ME

- Proficient in problem-solving and teamwork
- Strong leadership skills and a drive for continuous learning
- Highly organized and efficient
- Committed to making a meaningful impact in the field of technology

EDUCATION & TRAINING

2025 - Current - GAFSA, TUNISIA

SOFTWARE ENGINEERING- ESIP GAFSA

Level in EQF: 7 | **Website:** https://www.esip.tn/en/

1 Sep 2022 - 18 Jun 2025 - GAFSA, TUNISIA

LICENCE IN MULTIMEDIA & WEB DEVELOPMENT- HIGHER INSTITUE OF TECHNOLOGICAL STUDIES

Level in EQF: 6 | **Address:** Campus Universitaire Sidi Ahmed Zarroug2112 | **Website:** https://isetgf.rnu.tn/

WORK EXPERIENCE

1 AUG 2026 - CURRENT - RAS AL KHAIMAH, UNITED ARAB EMIRATES

FULL-STACK SOFTWARE ENGINEER (CLIENT CONTRACT)MY HAPPINESS NURSERY

• Contracted as lead software engineer to architect, build, and deploy an enterprise operating system and ERP for physical UAE nursery branches.

• Engineered a multi-tenant monorepo using Next.js 15, React 19, TypeScript, and Turborepo with 7 role-isolated workspaces secured by PostgreSQL Row-Level Security (RLS).

• Built an offline-first, zero-data-loss PWA engine using service workers and IndexedDB, allowing uninterrupted nursery operations in dead zones with background cloud sync.

• Integrated an automated AED billing engine via Stripe Checkout with webhook idempotency ledgers and official tax invoice generation.

• Designed a zero-egress media processing pipeline leveraging Cloudflare R2 and client-side Web Worker image compression to eliminate serverless memory costs.

• Implemented complete trilingual localization across 1,995 translation keys with bi-directional RTL support (English, Arabic, French).

Business or sector Education | **Department:** My Happiness Nursery | **Email:** info@myhappinessnursery.ae | **Website:** https://www.myhappinessnursery.ae

1 JUL 2026 - CURRENT - GAFSA, TUNISIA

INTERNENGINEERING AND CONSULTING GROUP & AGGE (ASSOCIATION OF GEOSCIENCES & GEO ENGINEERING)

• Engineered a cloud-native platform with React 19, Vite, and Supabase, migrating an international scientific society off a legacy WordPress stack.

• Architected a 16-table PostgreSQL schema with PL/pgSQL triggers and database-level Row Level Security (RLS) across a 6-tier RBAC hierarchy.

• Built a dynamic JSON-driven form engine allowing administrators to generate custom conference submission forms with schema validation and CSV export.

• Developed a self-service member portal and event registration engine with automated membership discounts and educational course catalogs.

• Built an administrative back-office suite featuring real-time KPI dashboards, Markdown CMS publishing, role management, and security audit trails.

30 JUN 2025 - 29 AUG 2025 - NABEUL, TUNISIA

FULL-STACK WEB DEVELOPER (CLIENT CONTRACT)YAMY (FOOD BRAND & E-COMMERCE)

• Contracted to design and engineer a custom bilingual e-commerce web platform for an artisanal food brand using React, TypeScript, and Vite.

• Built a real-time customer-merchant live chat system and dynamic shopping cart with Firebase integration.

• Developed a bilingual user experience with full Arabic (RTL) and French localization for localized regional consumer markets.

• Engineered a backend notification microservice using Node.js and Express deployed on Railway for automated transactional order confirmation emails.

• Delivered an administrative control panel for real-time order dispatching, product catalog management, and customer inquiry tracking.

10 JAN 2024 - 5 FEB 2024 - GAFSA, TUNISIA

INTERN (CUSTOMER SERVICE CENTER)TUNISIE TELECOM

Server Equipment Assembly: Assembled server equipment to ensure the performance and reliability of IT services at Tunisia Telecom.

Internet Equipment Maintenance: Installed Ethernet cables, configured access points, and performed repairs and formatting of PCs.

Web Application Development: Implemented a project with regular testing to ensure the quality and reliability of the application.

9 JAN 2023 - 4 FEB 2023 - GAFSA, TUNISIA

INTERN (CLIENTELE SUBDIVISION)TUNISIE TELECOM

Server Equipment Assembly: Assembled server equipment to ensure the performance and reliability of IT services at Tunisia Telecom.

Internet Equipment Maintenance: Installed Ethernet cables, configured access points, and performed repairs and formatting of PCs.

Web Application Development: Implemented a project with regular testing to ensure the quality and reliability of the application.

CERTIFICATIONS

14 AUG 2025

AWS Academy Cloud Foundations

Gained foundational knowledge of cloud computing, AWS core services, security, pricing, architecture, and best practices for building cloud-based solutions.

Link https://www.credly.com/badges/b1e3b420-83c9-4d45-b23a-b5fba3e70356/linked_in_profile

Javascript Algorithms and Data Structures

Developed JavaScript programming skills by solving algorithmic challenges and implementing data structures, ES6 features, and object-oriented programming concepts.

Link https://www.freecodecamp.org/certification/rayenarfa/javascript-algorithms-and-data-structures-v8

Data Visualization

Created interactive and responsive data visualizations using D3.js, SVG, scales, charts, and dynamic data manipulation techniques.

Link https://www.freecodecamp.org/certification/rayenarfa/data-visualization

Front End Development Libraries

Built interactive web applications using React, Redux, Bootstrap, jQuery, and Sass while following modern front-end development practices.

Link https://www.freecodecamp.org/certification/rayenarfa/front-end-development-libraries

Responsive Web Design

Learned to build responsive and accessible websites using HTML, CSS, Flexbox, CSS Grid, and modern web design principles.

Link https://www.freecodecamp.org/certification/rayenarfa/responsive-web-design

PROJECTS

1 AUG 2026 - CURRENT

My Happiness Nursery — Enterprise Kindergarten Management Platform & ERP • Spearheaded end-to-end architecture and production launch of a multi-tenant enterprise ERP operating system for physical UAE nursery branches.

• Engineered a Next.js 15 / React 19 Turborepo monorepo with 7 role-scoped workspaces, secured by PostgreSQL Row-Level Security (RLS) across 61+ database migrations.

• Built an offline-first, zero-data-loss PWA engine using service workers and IndexedDB, enabling offline staff operations with automated atomic cloud synchronization.

• Architected a mission-critical fintech billing pipeline with Stripe AED checkout, PostgreSQL webhook idempotency ledgers, and automated tax invoicing.

• Built a high-performance zero-egress media pipeline using Cloudflare R2 presigned uploads and client-side Web Worker image compression.

• Engineered trilingual parity across 1,995 translation keys with bi-directional RTL layout mirroring (English, Arabic, French).

Link https://www.myhappinessnursery.ae

1 JUL 2026 - CURRENT

AGGE — Cloud-Native Scientific Association Platform & Member Portal • Engineered a cloud-native platform with React 19, Vite, and Supabase, migrating an international scientific society off a legacy WordPress stack.

• Architected a 16-table PostgreSQL schema with PL/pgSQL triggers and database-level Row Level Security (RLS) across a 6-tier RBAC hierarchy.

• Built a dynamic JSON-driven form engine allowing admins to generate custom conference submission forms with schema validation and CSV export.

• Developed a self-service member portal and event ticketing engine with automated membership discounts and course catalogs.

• Built an administrative suite featuring real-time KPI dashboards, Markdown CMS publishing, role management, and security audit trails.

Technologies: React 19, Vite, Tailwind CSS v4, PostgreSQL, Supabase (Auth, RLS, RPC), Vercel.

2 SEP 2026 - CURRENT

Cinematic Portfolio & Interactive Media Showcase • Engineered a bespoke, high-performance visual showcase for an international lead narrative film editor and 3D motion designer using React 18, TypeScript, and Vite.

• Programmed real-time HTML5 Canvas ember particle physics with mouse velocity tracking, dynamic acceleration damping, and custom analog film-grain shaders.

• Architected a multi-ratio video streaming architecture with Cloudflare R2 presigned URLs, supporting 9:16 vertical social reels, 2.39:1 widescreen cinema, and 3D motion graphics.

• Built fluid 60fps micro-interactions and modal workflows using Framer Motion with zero frame drops across high-DPI desktop and mobile viewports.

Link https://ihebdhifallah.com

30 JUN 2025 - 29 AUG 2025

Yamy E-commerce Full-stack e-commerce platform for a Tunisian food brand — React, Firebase, real-time chat, bilingual admin dashboard, and Express email API on Railway

SharePay - Gift Card E-commerce Platform SharePay is a modern, full-stack e-commerce platform specifically designed for selling and managing digital gift cards. Built with the latest technologies, it provides a seamless experience for both customers and administrators.
Link https://github.com/rayenarfa/Sharepay

Milous Cafe A modern, responsive web application for Milous Cafe featuring menu management, reservation system, and admin dashboard.
Link https://milous-coffee.vercel.app/

Personal Website Personal portfolio website showcasing my skills, projects, and professional background.
Link www.rayenarfa.tn

Glucose Tracker A modern, mobile-first diabetes management application built with React, TypeScript, and Supabase. Track your glucose levels with beautiful charts, secure authentication, and an intuitive interface.
Link https://github.com/rayenarfa/glucose-tracker

Raven's Cheatsheets A modern, searchable cheatsheet hub for developers, featuring comprehensive guides and keyboard shortcuts for popular development tools and technologies.
Link https://github.com/rayenarfa/Raven-s-Cheatsheets

LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	B2	C1	C1	C1
FRENCH	C1	B2	B2	C1	B2
SPANISH	A2	B1	A2	A2	A2

VOLUNTEERING

25 AUG 2023 - 27 AUG 2023 Menzel Mimoun, Gafsa, Tunisia

Local Festival Volunteer Contributed to the successful organization and execution of the festival, collaborating with the local team to manage event logistics.

HONOURS AND AWARDS

15 JUL 2023 Association Science and Technology Ben Arous

- Actively participated in a workshop on electronic game development, held at the Youth Complex in Hargla, Sousse, Tunisia.
- Developed and showcased the best game in the event, a **2D Football Game created in Unity**, earning 1st place.
- Simultaneously won the **FIFA 23 tournament** held during the same event.

HOBBIES AND INTERESTS

- Proficient in understanding and utilizing advanced camera technologies for capturing high-quality images
- Skilled in using photo editing software (e.g., Adobe Photoshop, Lightroom) to enhance visuals and optimize image quality
- Experienced in managing digital assets and workflows for photo editing and post-production

- Interested in the development of gaming technologies, including game engines and interactive storytelling
- Experienced in analyzing UI/UX design in games to understand user engagement and behavior
- Passionate about problem-solving and teamwork in multiplayer gaming environments