Salah Abdelkhalek

Founder & Senior Full-Stack Engineer

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SUMMARY

Senior full-stack engineer with **6+ years** of shipping production software end to end, from the database schema to the last pixel. Most of my work sits where reliability matters: financial platforms, multi-tenant SaaS, distributed backends and AI systems, from hybrid RAG search over **7M+ records** to autonomous agents with a human in the loop. I work daily with Node.js/NestJS, TypeScript, PostgreSQL, Rust and AWS, and take products all the way to the user: web apps, React Native/Expo mobile apps and premium, responsive websites. Former technical team lead (**5+ developers**, delivery timelines cut by **25%**, production bugs reduced by **40%**); founder of the RE_UNDERSCORE studio.

Availability: open to full-time roles (on-site in Sousse, remote, or relocation) and to freelance or consulting missions.

TECHNICAL SKILLS

Backend & APIs: Node.js, NestJS, Express.js, Rust (Axum), REST, GraphQL, Apollo Server, Microservices, RabbitMQ, WebSockets, JWT, Passport, Zod, Swagger / OpenAPI

Frontend & Mobile: React, Next.js, TypeScript, JavaScript (ES6+), React Native, Expo, Apollo Client, Tailwind CSS, Chakra UI, Material-UI, HTML5, CSS3

Creative Front-end: Three.js, React Three Fiber, Drei, GSAP + ScrollTrigger, Lenis, Framer Motion

Databases & Search: PostgreSQL, MongoDB, Redis, MinIO, Qdrant (vector search), Meilisearch, TypeORM, Prisma, Mongoose

AI: LLM APIs, RAG, vector search, autonomous AI agents with human approval

Cloud, DevOps & Observability: AWS, Docker, Docker Compose, Nginx, Caddy, Cloudflare, GitHub Actions, CI/CD, Linux, DataDog, OpenTelemetry, Sentry

Payments & Integrations: Stripe, Lemon Squeezy (webhooks, billing, subscriptions), ClicToPay, Google Maps API, WhatsApp & SMS APIs, OCR, external APIs

Quality & Ways of Working: Jest, code reviews, Scrum / Agile, Jira, Figma, Postman, Git, Claude Code, MCP tools

PROFESSIONAL EXPERIENCE

Founder & Senior Full-Stack Engineer | RE_UNDERSCORE, Sousse — Oct 2025 – Present

- Engineered **Combium** (combium.reunderscore.com), a bank draft (lettre de change / traite) management platform: high-precision print workflows, OCR photo parsing, automated WhatsApp/SMS daily digests and multi-tenant financial reporting.
- Architected and deployed **PowerUp** (powerup.reunderscore.com), an AI fitness SaaS: Rust (Axum) API, MongoDB, MinIO storage, Lemon Squeezy billing (webhooks, subscriptions, automated lifecycle) and an Expo mobile app.
- Built a multi-tenant **Car Rental ERP** management portal with NestJS, PostgreSQL and React.
- Developed **airport booking engines** with real-time flight tracking and route pricing from Google Maps routes.
- Designed and built two **autonomous AI agents** (social media and prospecting) on a self-hosted open-source model, with a human approval before anything goes out.
- Delivered premium, responsive websites and redesigns, with motion and 3D that stay smooth on mobile.

Senior Back-End Developer | Celestial Wave Digital — Mar 2024 – Oct 2025

- Built the backend of **VIF**, a beauty and cosmetics e-commerce and supply-chain platform, with NestJS, TypeScript, PostgreSQL and TypeORM.
- Engineered the **Truth Chatbot** (islamictruth.com), a hybrid RAG backend in Rust combining Qdrant vector search with Meilisearch full-text search over 7M+ records of hadith, tafsir and related texts.
- Built the backend of **Universel Sport**, a sports management platform, with NestJS, MongoDB and Mongoose.
- Mentored junior engineers, enforced clean-code standards in reviews, and optimized database queries on production services.

Technical Team Lead | DunDill — Jul 2023 – Mar 2024

- Led a team of 5+ developers delivering external software projects on schedule, cutting delivery timelines by 25%.
- Implemented rigorous code reviews and automated testing workflows, reducing production bugs by 40%.
- Integrated DataDog monitoring to track system health and resolve production incidents quickly.

Software Developer | DunDill Jun 2022 – Jul 2023

- Built modular backend microservices with Node.js, TypeScript, Apollo GraphQL and Prisma.
- Set up unit-testing suites that secure the codebase before deployment.

Web Developer | Freingo Nov 2020 – Nov 2022

In parallel with DunDill from June 2022.

- Developed interactive web interfaces with React, GraphQL and Material-UI, extended to React Native mobile apps.
- Implemented asynchronous communication between microservices with RabbitMQ, increasing backend responsiveness by 25%.
- Containerized the local development and staging environments with Docker and Docker Compose.

EDUCATION

National Engineer's Degree in Electrical and Automatic Engineering 2015 – 2020

École Polytechnique de Sousse, Tunisia

Focus: Embedded Systems Integration, Automated Process Control, Software Engineering

LANGUAGES

- **Arabic:** Native
- **French:** Professional proficiency
- **English:** Professional proficiency

CERTIFICATIONS

- **Google Cloud Fundamentals: Core Infrastructure** – Coursera
- **Graph Developer (Associate & Professional)** – Apollo GraphQL
- **Intel Edge AI Certification** – Intel Corporation