

FAHED MBAREK

Full-Stack Software Engineer | AI & Intelligent Systems

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PROFESSIONAL SUMMARY

Results-driven **Full-Stack Software Engineer** with a National Engineering Diploma and a Data Science background, combining 3+ years of client-facing freelance delivery with startup incubation and enterprise systems experience. Proven track record in engineering modern web architectures, scalable Java/Spring Boot backends, and AI-enabled integrations, backed by strong analytical capabilities in requirements elicitation, feasibility studies, and product roadmaps to bridge business goals with IT execution.

SKILLS & TECHNICAL COMPETENCIES

Backend & Architecture: Java 17/21, Spring Boot 3/4 (Security, Data JPA), Microservices, REST APIs, STOMP WebSockets, Event-Driven Patterns, Caching (Redis), Swagger/OpenAPI
AI, Data & DBs: Python, TensorFlow, LLM Integration, Data Science Concepts, SQL (Relational Modeling, Optimization), PostgreSQL, MariaDB/MySQL, Apache POI
Analysis & Project Scoping: Requirements Elicitation, Feasibility Studies, Market & Competitor Benchmarking, Product Roadmaps, Stakeholder Alignment, User Stories, Agile/Scrum, Jira
DevOps & Frontend: Angular 22, React 18/19, Next.js 15, TypeScript, Docker, CI/CD (GitHub Actions, Jenkins), Git, Linux, DigitalOcean, Vault
Languages & Communication: English (C1 Professional), French (Professional), Arabic (Native) | Client Consulting, Technical Writing

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer & Project Founder 2024 - 2025
CertifUp (Incubator Startup / PFE at TEKONSULT) | [\[Video Demo\]](#) Tunis, Tunisia
• Authored a 60+ page feasibility study, surveyed 13 academic institutions (77% digital demand), benchmarked 22 international competitors, and formulated the multi-phase product roadmap.
• Architected a 4-microservice backend (Java 17, Spring Boot 3, Angular 18) for IAM, catalog, test execution, and voucher vault, authoring 25+ OpenAPI-compliant REST endpoints.
• Engineered a deterministic SHA-256 test generation engine and real-time WebSocket anti-cheat telemetry; built zero-trust credential vaults (BCrypt, AES-256 GCM) for external voucher gating.
• Configured automated CI/CD pipelines (Docker, Jenkins) with JUnit/Mockito test gates, achieving 88% service coverage.

Freelance Full-Stack Engineer 2022 - Present (3+ Years)
Independent Contractor Remote
• Partnered directly with international clients for 3+ years, gathering business requirements, scoping functional roadmaps, and delivering 15+ custom full-stack web platforms and REST services.
• Engineered relational database schemas and integrated external AI/LLM APIs, reducing manual client processing by >40%.

Software Engineering Internships Jun. 2024 - Sep. 2024
MRC Survey & MBtech Tunis, Tunisia
• **MRC Survey (Backend Intern):** Built Spring Boot microservices with strict Jakarta Bean Validation and unit tests.
• **MBtech (Full-Stack Intern):** Implemented Redis caching/throttling and remediated critical SQL injection and XSS flaws.

KEY ENTERPRISE PROJECTS

Compagnie des Phosphates de Gafsa (CPG) - Enterprise TMS | *Spring Boot 4, Angular 22* [\[Video Demo\]](#) 2026
• Digitized training logistics across 7 mining extraction basins, cutting request turnaround by >85% (from 3 weeks to <48h).
• Engineered procurement modules linking Purchase Orders to sessions, automating 100% cost reconciliation and invoice tracking.
• Formulated 15+ executive BI KPIs with automated bilingual (FR/AR) PDF/CSV reporting powered by embedded JFreeCharts.

YAZAKI Corporation - Talent Intelligence Platform | *Spring Boot 4, Next.js 15, PostgreSQL* [\[Video Demo\]](#) 2025 - 2026
• Digitized performance management across 6 automotive departments (120+ skills), establishing 5-point competency matrices and automated gap detection (< 75% Priority 1, < 85% Priority 2) linked to corrective training tickets.
• Built an Apache POI coordinate parser to migrate legacy multi-sheet Excel matrices with 100% data fidelity and ISO 30414 audit trails.

Enterprise HR & Project Operations Platform | *Java 21, Spring Boot 3.5, React 18, MySQL* [\[Video Demo\]](#) 2025
• Designed role-based workflows for attendance and leave requests; authored API catalogs for 17 REST controllers and STOMP chat.

EDUCATION

TEK-UP (Higher Institute of Technologies) Ariana, Tunisia
National Engineering Diploma in Software Engineering (Diplôme National d'Ingénieur) 2022 - 2025
• **Focus:** Software Architecture, Distributed Systems, Relational Modeling & Requirements Engineering

ISSAT Gafsa (Higher Institute of Applied Sciences and Technology) Gafsa, Tunisia
Master's Degree in Data Science (First Year - M1) 2022 - 2023

ISSET Gafsa (Higher Institute of Technological Studies) Gafsa, Tunisia
Higher Diploma in Information Systems Development (DSI - Applied Licence) 2019 - 2022