

Abderahmen Manai

Software Engineer • Full-Stack Developer

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SUMMARY

Results-driven Software Engineer with 2+ years of hands-on experience building production B2B SaaS platforms, distributed IoT applications, and high-conversion client systems. Strong expertise in Clean Architecture, SOLID principles, and full-stack development using Java (Spring Boot) and TypeScript (Node.js, React, Next.js). Adept at optimizing code performance, automating workflows, and orchestrating containerized cloud environments. Seeking immediate Full-Stack opportunities across Tunisia, Europe, or Remote.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Java, Python, SQL, HTML/CSS
- **Backend Frameworks:** Node.js, Express, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate
- **Frontend Frameworks:** React, Next.js, Angular, Tailwind CSS, RxJS, Zustand, TanStack Query
- **Database & DevOps:** PostgreSQL, MongoDB, Redis, InfluxDB, Docker, Docker Compose, Azure, Nginx, GitHub Actions
- **Messaging & Architecture:** Apache Kafka, RabbitMQ, MQTT, WebSockets, Clean Architecture, SOLID, Event-Driven
- **Testing & Tools:** JUnit 5, Mockito, Jasmine, Karma, Git, Postman, Maven, Swagger / OpenAPI

EXPERIENCE

KernelSolutionInnovation (KSI)

Jan 2026 – Present

Full-Stack PFE Intern — Distributed Security Platform

Tunis, Tunisia

- Architecting a distributed IoT security platform ingesting real-time telemetry across multi-site field devices.
- Building RESTful services using Node.js, Express, and PostgreSQL, secured via JWT and Role-Based Access Control (RBAC).
- Engineering a dual-channel messaging layer with MQTT and WebSockets, achieving sub-second event propagation to browser clients.
- Applying Clean Architecture with dependency injection to isolate core domain logic, improving unit test coverage and maintainability.
- Containerizing the full application lifecycle using Docker Compose to ensure strict Dev/Prod environmental parity.

Freelance Web Development

2024 – 2025

Frontend Developer — Client Websites (Remote)

Tunisia / Europe

- Designed and launched 3 pixel-perfect client platforms into production: Hive Real Estate, Dar Zarouk, and Nurone.
- Engineered an automated French-language reservation flow for luxury restaurant Dar Zarouk, increasing digital booking efficiency.
- Developed rich UI animations and modular components with Next.js and Tailwind CSS, securing lighthouse SEO scores > 90.
- Gathered business requirements directly from stakeholders, successfully converting ambiguous briefs into production-ready software.

Deus Media Group

May 2024 – Aug 2024

Junior Software Engineer — B2B SaaS Platform (Remote)

London & Frankfurt

- Shipped full-stack features using React, Node.js, and PostgreSQL for a B2B SaaS architecture serving European clients.
- Boosted UI performance by 30% by migrating client state to Zustand and integrating server-state caching via TanStack Query.
- Integrated on-premise Large Language Models (LLMs) via Ollama to automate user content workflows and reduce manual effort.
- Contributed within a fast-paced, distributed Agile team, participating in structured code reviews and Git-flow release cycles.

FEATURED PROJECTS

Covoiturage Tunisia — Carpooling Platform

2025 – Present

React, TypeScript, Node.js, Express, PostgreSQL, Kafka, Redis, Azure

- Built an event-driven seat booking system using Apache Kafka to seamlessly process asynchronous confirmation flows.

- Prevented concurrent double-booking vulnerabilities by implementing transactional Redis distributed locks on seat inventory.
- Enforced a defense-in-depth security scheme utilizing HttpOnly cookies, OAuth 2.0, and automated Refresh Token rotation.
- Deployed micro-services via Docker Compose to Azure Container Apps with custom Nginx reverse proxy routing.

EDUCATION

Higher Institute of Information Technologies and Communication (ISTIC) <i>Bachelor of Science in Computer Engineering</i>	Expected 2026 <i>Borj Cedria, Tunisia</i>
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LANGUAGES

Arabic: Native	•	French: Fluent (C1/C2)	•	English: Professional Working Proficiency
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