

Mohamed Dehmeni Bellarej

FULL-STACK DEVELOPER
.NET · REACT · DEVOPS

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Full-stack developer with 5+ years building scalable, multi-tenant web platforms and SaaS products with .NET, React/Next.js, and cloud DevOps on Azure and AWS. I ship reliable REST APIs, real-time features, and automated CI/CD pipelines. Open to senior full-stack or backend roles, remote.

PROFESSIONAL EXPERIENCE

Full-Stack Developer · Cosmos Pixels

Jan 2024 — Present · Remote

.NET backend & React/Next.js - TeachForm, a multi-tenant LMS serving 15 institutions, training centers, and independent course creators

- Built and maintained backend services and REST APIs in .NET alongside frontend work in React, Next.js, and MUI, keeping admin, instructor, and learner portals consistent.
- Built the real-time layer with Socket.io: an authenticated WebSocket gateway with per-tenant rooms, message persistence, delivery/read receipts, and presence - powering live chat and notifications.
- Shipped advanced course modules for quizzes, assignments, and progress tracking, including Kanban and list views with drag-and-drop workflows.
- Designed a tenant-aware architecture with role-based routing, isolated user data, custom theming, and scalable multi-portal deployments; hardened security and compliance with managed cloud services.
- Reduced API response times by adding Redis caching on hot read paths and nginx gzip/brotli compression.
- Integrated a multi-provider AI assistant with role-specific experiences for instructors, students, and administrators.

Backend & DevOps Engineer, Team Lead · Sane Agency

Jan 2021 — Jan 2024 · Sousse, TN

Digital agency -client platforms across web hosting, industrial reporting, and e-learning

- Led a team of 4 developers across three major client projects, owning backend architecture and DevOps execution end to end.
- Designed backend systems and REST APIs across multiple products, with authentication on ASP.NET Core Identity, JWT, and OAuth2/OpenID Connect.
- Replaced manual deployments with automated Jenkins CI/CD pipelines, making releases faster and repeatable, backed by xUnit and Postman/Newman test suites.
- Delivered the agency's flagship platforms: Awisso Hosting, the Huber+Suhner reporting dashboard, and Awisso E-Learning.

SKILLS

Core · .NET, C#, TypeScript, React, Next.js, Node.js, REST API design, Socket.io, PostgreSQL, MySQL

Also work with · Nest.js, Express.js, React Native, Redux, MongoDB, Tailwind, MUI, Chakra UI

Cloud & DevOps · Docker, Jenkins, CI/CD, Azure Blob Storage, AWS S3 & Lambda, Nexus, Grafana, Prometheus, Kubernetes (familiar)

Testing & tooling · xUnit, Jest, Postman/Newman, Git, GitLab, Jira

EDUCATION

Bachelor's Degree, Electronics, Electrical Engineering & Automation · Faculty of Sciences of Monastir 2017 — 2020

LANGUAGES & INTERESTS

Languages · Arabic (native) · English (fluent) · French (fluent)

Interests · Multi-tenant architecture · API design · backend performance · DevOps automation · UX design · AI & emerging technologies