

# Youssef Bennour

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## EXPERIENCE

### Back-End Engineer (Full-Time)

January 2024 – Present

*Softylines*

*Sousse, Tunisia*

- Architected zero-downtime, blue-green deployments for BMDRM, a high-traffic video streaming platform with over 20k users, using HashiCorp Terraform and Nomad
- Developed a distributed video transcoding pipeline with a throughput of 120k+ videos/month (Zoom recordings), enabling encrypted adaptive streaming and real-time processing visibility using C# and Ffmpeg
- Engineered a solution to compact video segment files, reducing files count from 1,400 to 25 per video, cutting Cloudflare R2 upload costs by 98%
- Built a reusable multi-tenant system enabling users to belong to multiple organizations with fine-grained RBAC, invitations, and audit logging using .NET Core, PostgreSQL, and Redis
- Created a Backend-For-Frontend layer mitigating XSS and CSRF attacks via encrypted cookie-based auth while proxying to JWT-secured microservices using Microsoft Yarp and Keycloak
- Designed a video processing queue with a scheduling algorithm, reducing peak client wait times from up to 30h to under 1h and ensuring fair resource allocation using ASP.NET Core and Long Polling
- Led and mentored a team of 4 software engineers to build Triodax, a SaaS accounting platform automating financial reporting and ensuring compliance with Tunisia's fiscal regulations

### Full-Stack Software Engineer (Full-Time)

May 2023 – Decemeber 2023

*Softylines*

*Sousse, Tunisia*

- Designed and implemented a data modeling tool for IdentiQube (IAM solution), allowing automated integration with external systems (e.g. SAP, Salesforce, Active Directory) using ASP.NET Core, Blazor and SQL Server
- Implemented automated form generation for IAM workflows using C# and Blazor
- Developed a C# query builder to access IAM data models with a fluent API

### Software Engineering Intern (Full-Time)

October 2022 – April 2023

*Softylines*

*Sousse, Tunisia*

- Built a real-time collective-buying web application using ASP.NET MVC and SignalR, enabling vendors to configure pricing tiers based on customer demand and providing customers with live pricing updates
- Created over 10 reusable components for our internal Blazor UI Library

## PROJECTS

### AspNetCore.Starter | .NET Core, C#, TestContainers, Xunit, PostgreSQL, Keycloak

April 2024 – Dec. 2024

- Crafted a project template for building modular monolith applications with ASP.NET Core
- Implemented an event-driven architecture using an in-memory event bus with the transactional outbox pattern
- Set up infrastructure for building production-like integration tests with TestContainers and xUnit
- Integrated OpenID Connect with Keycloak for authentication and authorization

## TECHNICAL SKILLS

**Languages:** C#, Javascript, Java, SQL (SQL Server, Postgres), HTML, CSS

**Frameworks:** ASP.NET Core, ASP.NET MVC, Blazor

**Developer Tools:** Git, Jenkins, Gitlab pipelines, Ansible, Nomad, Consul, Docker, FFmpeg, Redis, Nginx, Grafana, Prometheus, Cloudflare R2, Keycloak, Cloudflare, Hetzner Cloud

**Libraries:** Entity Framework, TestContainers, Yarp, OpenId Connect, Microsoft Orleans, XUnit, Dapper, MediatR, Marten DB, Respawn, OpenTelemetry

## EDUCATION

### Horizon School Of Digital Technologies

Sousse, Tunisia

*Bachelor of Science in Computer Science (Sponsored by Softylines)*

*October 2022 – June 2025*