Roberto López Barbarin

Backend Engineer · C# / .NET & Microsoft Azure

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PROFESSIONAL SUMMARY

Backend developer in **C# and .NET** with 2 years of production experience, working as a de facto senior: I run projects, make technical decisions and rolled out **CI/CD with Azure DevOps** in my team. In my own projects I build **cloud-native platforms on Azure** (Container Apps, Service Bus, Key Vault, Managed Identities) with **Bicep**, **GitHub Actions**, **Clean Architecture**, hundreds of tests against real SQL Server and **OpenTelemetry** observability.

TECHNICAL SKILLS

Backend & Architecture	**C#**, **.NET (Core / 8 / 10)**, **ASP.NET Core (Minimal APIs & Web API)**, Clean Architecture, REST / OpenAPI, ProblemDetails, Optimistic Concurrency (ETag / If-Match), SignalR
Microsoft Azure	**Azure Container Apps & Jobs**, **Azure Service Bus**, **KEDA**, **Azure SQL Database**, **Key Vault**, Blob Storage, App Services, Entra ID (OIDC / JWT), Managed Identities
Data & Integrations	**SQL Server**, **Entity Framework Core**, automated migrations, async messaging queues, Stripe Webhooks, PSD2 third-party APIs (RS256 JWT signing), Document Intelligence
DevOps, Testing & Obs.	**Docker**, **.NET Aspire**, **Azure DevOps (CI/CD)**, **GitHub Actions (OIDC)**, **Bicep (IaC)**, **xUnit**, **Testcontainers**, OpenTelemetry, Application Insights, Git, Angular

PROFESSIONAL EXPERIENCE

Software Developer (.NET Backend & Web) · Telco SL

Oct 2024 – Present

- Backend services and **REST APIs** in **C#/.NET** for several traffic-management ERPs and a time-and-attendance system, on **SQL Server and Entity Framework** (data modeling and query tuning), plus third-party API integrations.
- **Performance:** cut query time from **over 6 s to under 1 s** on a screen used by **40+ concurrent users**, with server-side pagination aligned with the front-end pager.
- **Memory:** found and fixed a memory leak caused by `DbContext` instances not being released due to their DI lifetime, using `IDbContextFactory`.
- **CI/CD:** proposed and rolled out **Azure DevOps** in the team, with **pipelines** that build and validate every delivery. **Angular** front end, Git branching, pull requests and code review.

CLOUD-NATIVE ARCHITECTURE & AZURE PROJECTS

Plumy — Multi-Tenant B2B SaaS Platform on Azure

`github.com/chelomama-dev/plumy` Multi-Tenant SaaS · Azure

`.NET 10 · EF Core 10 · Clean Architecture · Azure Container Apps · Service Bus · KEDA · Azure SQL · Bicep · xUnit · Testcontainers · OpenTelemetry`

- Processes supplier invoices for accounting firms: reads them with **Document Intelligence**, suggests the ledger account (history first, then an **LLM on Microsoft Foundry** with structured outputs) and validates them with deterministic rules.
- Multi-tenant **Clean Architecture**; async ingestion via **Blob Storage + Service Bus** and a worker on **Container Apps** scaling to zero with **KEDA**; optimistic concurrency (`rowversion`, `ETag`/`If-Match` → 412), Stripe webhooks and 12 ADRs.
- Infrastructure 100% in **Bicep**, deployed with **GitHub Actions (OIDC)** and **Managed Identities** — no secrets. **600+ tests** (xUnit + Testcontainers against real SQL Server) and **OpenTelemetry + Application Insights**.

Finances Hub — PSD2 Banking Aggregator & Scheduled Cloud Sync

API Integration · Azure

`github.com/chelomama-dev/finances-hub`

`.NET 10 · Minimal APIs · EF Core 10 · Container Apps Jobs · Azure Key Vault · Entra ID · .NET Aspire 13 · Docker · Bicep`

- *Contract-first* API (`OpenAPI` + `ProblemDetails`) reading bank accounts through **PSD2 (Enable Banking)** with **RS256 JWT** signing keys in **Key Vault**; scheduled sync on **Container Apps Jobs** over Azure SQL Serverless, local setup with **.NET Aspire + Docker** and NuGet Audit in CI. Flutter Android app. *In progress.*

AppClientesEstadística — Tracasa Summer Camp

`github.com/chelomama-dev/AppClientesEstadistica` Scrum · Azure

- **Scrum** team on Azure DevOps: customer and statistics modules with **EF Core**, real-time **SignalR**, Identity (JWT), Serilog, deployed to **Azure App Service**.

CERTIFICATIONS & LANGUAGES

Microsoft Certified: Azure Fundamentals `AZ-900`

Azure AI Cloud Developer Associate `AI-200 · In progress`

English C1 · Spanish (native)

EDUCATION

Higher Technician in Web App Development `CFGS DAW`

Higher Technician in Cross-Platform Development `CFGS DAM`