

Davide De Pretto

Freelance Senior .NET/Azure Solutions Architect

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Profile

Nerd by *nature*, architect by *profession*. **I craft systems you can trust.**
Architecture-first, measurable improvements, clean & maintainable code.

At a glance

Proven track record of turning complex, messy systems into stable, maintainable platforms — from millisecond-class real-time pipelines to large-scale data integrations.

- **.NET & C#** — Web (ASP.NET Core), Desktop (WPF/WinUI), Services/Workers, Console/TUI.
- **Azure** — Compute (Functions, App Service, Container Apps), Data (SQL/ADLS/Synapse/ADF), Messaging (Service Bus/Event Grid), Identity & security (Entra ID), Config (App Configuration/Key Vault), Monitoring/Observability, selective AKS & Iaas.
- **Database** — OLTP, OLAP, Data Integration (ETL/ELT), Database Design, Performance Tuning.
- **Industrial/HMI** — PLC Integration, Real-time Data Processing, Diagnostics, Sub-ms Optimization.
- **DevOps/IaC** — CI/CD with GitHub Actions & Azure DevOps, IaC (ARM/Bicep), Observability.
- **Low-code** — Power Platform (Dataverse, SharePoint).
- **Domains** — Enterprise Integrations, Data Platforms, Industrial, CRM/ERP (Dynamics, Salesforce).
- **Certs** — AZ-305, AZ-104, AZ-204, DP-203, PL-400.
- **Languages** — Native Italian; fluent English (written & spoken).

Work experience

Oct 2023 – Jun 2025 · full-remote (EU time zone) · via CRS Laghi

Freelance Senior Industrial Software Architect — SGM Magnetics

- Technical lead & principal architect for two industrial control/HMI products; re-architected and modernized under tight timelines, migrating an extensive legacy feature set with full feature parity (multi-sensor acquisition, classification, actuation sequencing) and PLC integration, plus diagnostics, telemetry, and deployment tooling.
- Designed and built a shared, modular, channel-based processing core and cross-product platform; formalized engineering practices (Clean Architecture, code reviews, continuous refactoring) and mentored 2 domain SMEs to production-grade C#. Code health: –83% static-analysis issues, warnings –75%, MI +16.6 pts, Executable LOC –62%; +10 test assemblies (~10.7k SLOC).
- Achieved sub-millisecond, real-time-class performance — cut hot-path classification latency by >80% (≈ 1.0 ms \rightarrow few hundred μ s) via microbenchmark-driven, targeted optimizations while preserving correctness and stability.

Sep 2023 – Present · full-remote (EU time zone) · via Witailer · project-based

Freelance Senior Azure Data & Integration Architect — Global CPG/Life Sciences

- End-to-end architecture and development of Azure ETL platforms: SharePoint/Blob \rightarrow Logic Apps/Event Grid \rightarrow Azure Functions (Python/pandas) \rightarrow Azure SQL; idempotent loads, schema validation, robust error handling, and production-grade observability (App Insights).
- Unified data model and SQL layer: staging/curated schemas, TVPs + stored procedures (MERGE), denormalized views; standardized 60+ data sources for sales, products and market data; country/retailer mappings, scheduled FX ingestion with retry/backoff and currency normalization.
- IaC & CI/CD: Bicep templates and reusable GitHub Actions (infra/app/db), automated environment promotion and zero-touch releases; SendGrid notifications (HTML reports + CSV attachments), file-level tracking and KPIs, secure and auditable inbound taxonomy.

May 2023 – Feb 2024 · full-remote (EU time zone) · project-based

Freelance Senior Microsoft Solutions Architect — Istante

- Assessed a Power Apps estate, triaged tech debt, and streamlined dev/release workflows.
- Re-architected and rewrote an order-collection app: .NET backend, React frontend, SQL Server; on-prem Windows Server with a Windows Service syncing AS/400 ERP.
- Owned end-to-end delivery (analysis → architecture → development/testing → deployment).

Apr 2023 – Oct 2024 · full-remote (EU time zone) · project-based

Freelance Senior .NET Developer — Elettrone

- Refactored a legacy WinForms IoT configuration tool to WinUI 3 with a MediatR-based backend, enabling reliable device patching on the factory line.
- Led requirements, architecture, development, testing, and ongoing optimization.
- Contributed to the IoT analytics stack using Azure Data Explorer (ADX) and KQL for customer dashboards.

Mar 2023 – Sep 2023 · full-remote (EU time zone) · via Lobra Futura

Freelance Senior Azure Solution Architect — Wolford

- Integrated IBM i, Salesforce, and custom systems on AKS within a microservices architecture.
- Led .NET integration framework work, enforcing standards and architectural consistency with NServiceBus over SQL Server; ran production ops and CI/CD automation.

Jan 2023 – May 2023 · full-remote (EU/US time zones) · project-based

Freelance Microsoft Consultant/Developer — Multiple Clients

- Built Dynamics 365 customizations and Power Platform apps on SharePoint and Dataverse for multiple clients.

May 2022 – May 2023 · on-site (Verona, IT) · project-based

CTO & Co-founder — Diogene Solutions

- Led product development on Dataverse/Power Apps; defined SDLC and DevOps in Azure DevOps.
- Provided strategic guidance on low-code/no-code adoption across legal and business constraints.

Dec 2021 – Nov 2022 · full-remote (EU time zone)

Software/Data Engineer — Witailer

- Built an internal .NET on Azure data platform using SOLID/Clean Architecture.
- Migrated from JSON-on-SQL to Parquet + Synapse Analytics; optimized Azure spend while maintaining continuity.

Sep 2019 – Dec 2021 · hybrid (Verona, IT)

Full-Stack Developer → R&D Developer — Trueblue

- Designed a multi-tenant backend (Azure, SQL Server, Node.js) delivering real-time, AI-driven KPIs from enterprise data sources; improved practices (Clean Architecture, DevOps, schema versioning).
- Extended a legacy CRM (SQL Server, Node.js) with new modules and fixes; decoupled email into a dedicated external microservice.

Jan 2017 – Sep 2019 · on-site (Verona, IT)

Full-Stack Developer & Instructor — SI-FA Cooperativa Sociale

- Built a custom LAMP CRM on Azure for scheduling and billing/payroll reporting; consolidated the org onto Microsoft 365 Non-Profit (AAD, SharePoint, Exchange Online).
- Taught Computer Science topics to students.