

DAVIDE DE PRETTO

Senior Solution Architect (.NET/Azure)

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SUMMARY

Solution Architect with 8+ years of experience designing and delivering complex software architectures on the .NET and Azure stack. Specialized in modernization, integration, and data-intensive systems within fragmented or legacy environments. Strong architecture-first approach focused on defining system boundaries and integration patterns, translating into production-grade solutions built for reliability, performance, and maintainability. Experience across enterprise applications, event-driven integrations, and real-time industrial systems, with hands-on ownership across the full delivery lifecycle and a focus on improving engineering quality and delivery outcomes.

EXPERIENCE

Oct 2025 – today · Full-remote

Senior Solution Architect – Bobuild

- Led end-to-end architecture and delivery of multiple administrative systems on a low-code platform for the Italian Prime Minister's Office (incl. OMRI), migrating and re-architecting legacy Access-based applications into modern, production-grade solutions.
- Defined domain architecture, data models, and workflow logic for complex, multi-actor processes (approvals, reviews, authorizations), ensuring consistency across lifecycle, permissions, and UI behavior in constraint-driven environments.
- Designed integration and migration architecture (SQL Server, JSON pipelines, REST APIs), including staging models, mapping strategies, batching, and observability, ensuring data reliability, operational robustness, and long-term maintainability.

Oct 2023 – Jun 2025 · Full-remote

Senior Industrial Software Architect – CRS Laghi

- Led architectural redesign and evolution of industrial control and HMI systems, operating in real-time environments with strict performance and reliability constraints, re-architecting legacy components into modular and maintainable processing structures.
- Defined system architecture, processing pipelines, and concurrency models for data ingestion and signal classification, designing low-latency data flows, synchronization strategies, and fault-tolerant execution patterns under continuous workloads.
- Delivered end-to-end improvements across codebase and runtime performance, including refactoring and quality standards adoption (–83% static analysis issues, –75% warnings, >80% latency reduction in critical processing paths).

Sep 2023 – today · Full-remote

Senior Azure Data & Integration Architect – Witailer/Retex

- Led end-to-end architecture, implementation, and operation of a production-grade Azure data ingestion platform for large-scale retail and manufacturing ecosystems, acting as sole technical owner across design, integration, delivery, and operational maintenance.
- Designed a canonical ingestion framework for 60+ heterogeneous data sources, based on schema-agnostic contracts and multi-stage processing (raw → validation → curated), enabling resilient handling of inconsistent data and scalable onboarding.
- Defined data processing and validation architecture in SQL Server (staging models, deterministic transformations, error tracking), and built event-driven ingestion pipelines, ensuring idempotency, full traceability, and low-maintenance operations in production.

May 2023 – Feb 2024 · Full-remote

Senior Solutions Architect – Istante

- Assessed and restructured a fragmented Power Platform estate (Canvas + SharePoint), defining architectural and DevOps guidelines with a strong application lifecycle management focus, leading the transition toward an ISV-grade model-driven/Dataverse approach.
- Re-architected a critical order management application, replacing an unsuitable low-code solution with a custom architecture (.NET, React) to support real-time pricing logic, large product catalog, and advanced UX requirements driven by specific client workflows.
- Led end-to-end delivery from analysis to production, designing core data models, APIs, and scheduled integration with AS/400, enabling a responsive, cross-platform user experience with significant improvements in performance, usability, and maintainability.

Apr 2023 – Oct 2024 · Full-remote

Senior .NET Developer – Elettrone

- Re-architected a legacy WinForms-based IoT device provisioning tool into a modular .NET application (using WinUI 3), introducing clean architecture principles and decoupling UI, domain logic, and hardware integration layers.
- Designed a workflow-driven configuration system for factory environments, enabling reliable device provisioning, real-time execution feedback, and seamless interaction with external tooling and APIs in constrained and failure-prone conditions.
- Migrated the application from database-centric logic to an API-first architecture, improving system reliability, maintainability, and consistency across device registration, configuration, and labeling processes.

Mar 2023 – Sep 2023 · Full-remote

Senior Solution Architect – Lobra Futura

- Led the transition and continuation of an event-driven enterprise integration platform, taking ownership of a distributed microservices architecture (AKS, .NET, NServiceBus) connecting ERP (IBM i), e-commerce (Salesforce), POS (Oracle), and custom logistics systems.
- Defined and enforced integration patterns and architectural standards across services, ensuring consistency in event-driven communication, message handling and versioning, and cross-system workflows within a complex multi-system landscape.
- Contributed to delivery and operations of the integration platform, supporting CI/CD pipelines, environment consistency, and reliable event-based synchronization of business processes (orders, inventory, shipping).

Jan 2023 – May 2023 · Full-remote

Freelance Microsoft Consultant/Developer – Multiple Clients

- Delivered Dynamics 365 customizations and Power Platform solutions (Dataverse, SharePoint) across multiple client projects.
- Supported integration and extension scenarios, aligning low-code solutions with backend systems and business workflows.

May 2022 – May 2023 · Verona (IT)

Solution Architect Consultant – Diogene Solutions

- Led product development on Dataverse/Power Apps, defining architecture, SDLC, and DevOps practices in Azure DevOps.
- Provided strategic direction on low-code adoption, balancing technical constraints with legal and business requirements.

Dec 2021 – Nov 2022 · Full-remote

Software/Data Engineer – Witailer

- Migrated data processing from JSON-on-SQL to Parquet + Synapse Analytics, improving scalability and cost efficiency.
- Built an internal Azure-based data platform in .NET following SOLID/Clean Architecture principles.

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 analytics from enterprise data sources.
- Improved engineering practices (Clean Architecture, DevOps, schema versioning) and modularized legacy CRM components.

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

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

- Developed a custom CRM (LAMP on Azure) for scheduling, billing, and reporting processes.
- Taught Computer Science topics to students.

CERTIFICATIONS AND COURSES

AZ-305: Azure Solutions Architect Expert

AZ-204: Azure Developer Associate

AZ-104: Azure Administrator Associate

DP-203: Azure Data Engineer Associate

LANGUAGES

Italian

Native

English

Fluent

TOOLS AND PLATFORMS

Cloud & Infrastructure:

Azure, Azure Functions, App Service, Container Apps, AKS, IaaS, Entra ID, App Configuration, Key Vault, App Insights

Languages & Frameworks:

.NET, C#, ASP.NET, Entity Framework, WinForms, WPF, WinUI, T-SQL, PowerShell, Python

Data & Analytics:

SQL Server, Azure SQL, ADLS, Synapse Analytics, Azure Data Factory, Azure Data Explorer, Parquet, pandas

Integration & Messaging:

Service Bus, Event Grid, Logic Apps, NServiceBus, MediatR

DevOps & IaC:

GitHub Actions, Azure DevOps, Bicep, ARM

Low-Code/No-Code:

Power Platform, Dataverse, SharePoint, Dynamics 365

Enterprise Systems:

Salesforce, IBM i (AS/400)

SKILLS

Software Architecture, Clean Architecture, Microservices, Enterprise Integration Patterns, Performance Tuning, Database Design, OLTP/OLAP, ETL/ELT, Real-time Data Processing, PLC Integration, CI/CD, Infrastructure as Code, DevOps, Observability, Code Review, Technical Mentoring