Massimiliano Peluso

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Personal Statement

Solution Architect with extensive experience delivering **cloud-native, AI-enabled**, and enterprise solutions across insurance and financial services. I design secure, scalable architectures on Azure and AWS, specialising in event-driven integration, microservices, Domain-Driven Design (DDD), high-transaction systems, and the practical application of Generative AI and intelligent automation within regulated environments.

Trusted by organisations including Microsoft, HSBC, Lloyd's of London, Munich Re, and IBM, I translate business goals into pragmatic target architectures and roadmaps, embedding data, analytics, and AI capabilities to unlock digitised services and operational efficiency. I guide cross-functional teams through delivery with strong stakeholder management, governance, and DevOps/CI/CD adoption.

Architecture / Integration

- Enterprise Architecture (TOGAF 9.2, ArchiMate)
- Enterprise Integration Patterns
- Azure Landing Zone & Best Practices
- Security Patterns (Zero Trust, Cloud Security)
- Event-Driven Architecture & Microservices Architecture
- Cloud-First & Serverless Applications
- Azure Data Services & Integration
- Domain-Driven Design (DDD), CQRS – Event Sourcing

- Model-Driven Architecture, UML
- Government Digital Service (GDS) Experience
- MuleSoft Integration & API Management
- Lloyd's Blueprint Two (BP2) Readiness
- Solution Architecture Documentation
- Vendor and Third-Party Integration

Cloud / Data / AI

- AWS Cloud and Azure Cloud Services
- Azure Machine Learning / Azure AI Cloud Foundry
- Azure Data Factory, Azure Logic Apps, Azure Databricks
- Big Data, Data Lakes, and Streaming Technologies
- Microsoft Power BI, Tableau, QlikView
- Microsoft Dynamics CRM
- Azure Cloud Foundry, Azure ML Studio

Programming Languages / Application Security

- C#, .NET 8.0, ASP.NET Core, .NET Core
- Java, MuleSoft, Junit
- Open Banking APIs / PSD2
- REST API / HTTP Services (API Gateway, APIM)
- Docker, Kubernetes & Serverless Functions
- Front-End: AJAX / jQuery, HTML / HTML5 / CSS, Bootstrap, Angular.js
- Search & Indexing: Lucene.net, SQL Full Text Search, Autonomy IDOL
- OAuth2, OpenID, JWT, Kerberos, SAML, TLS, RBAC, SHA
- SOLID Principles, POCO objects, multi-threading programming
- High-Performance, Multi-Threaded Computing
- Visual Studio & DevOps Tooling

Methodologies

- DevOps Practices & CI/CD Pipelines
- Agile Methodologies (Scrum, SAFe, Kanban)
- Performance Optimization & Scalability
- Stakeholder Management & Communication
- Requirements Analysis & Technical Documentation
- Incident Management & Problem-Solving

DBMS / NoSQL DB

- MS SQL Server, Oracle 11
- MongoDB, DynamoDB, Cosmos DB
- Event Stores & Data Streaming

Work Experiences

From 09/2025- Present

Bupa Global Insurance – Lead Architect

Led the strategic re-architecture of Bupa's core digital platforms, including global claims processing and customer-facing digital services.
Defined the target cloud and integration architecture, modernising legacy systems through API-first, AI-enabled, and event-driven principles.
Drove AI initiatives for intelligent risk ingestion, SOV cleansing, and underwriting automation, while advising senior leadership on scalable, resilient, and future-ready technology strategy.

DDD, GCP, Azure Foundry, Azure OpenAI, Zone principles, Angular, React, Node.js, Azure Foundry, ADF, SQL Server, Azure Synapse, Snowflake. DWH, Integration Pattern, Vendor API integration, Event-driven, Core API's, Enterprise Integration patterns.

From 02/2024 – 09/2025

IQUW Insurance – Lead Architect

At IQUW, I've played a key role in the digital transformation of the policy lifecycle, from submission to binding. My focus has been on empowering underwriters with intelligent tools that enable faster and more accurate pricing decisions.

I led the integration of Unqork Workbench and Q Web, enabling underwriters to access real-time, contextual submission data and risk indicators, dramatically reducing decision latency.

In this initiative, I provided technical and strategic leadership—coordinating cross-functional teams across engineering, product, and data science to ensure alignment, velocity, and delivery quality.

By implementing an AI-enhanced triage model, we uncovered more actionable insights earlier in the process, improving risk selection and pricing consistency. I guided the solution architecture and oversaw delivery milestones, ensuring business goals were met while maintaining compliance and governance standards.

As part of this program, I delivered an MVP for risk pricing using Azure AI Foundry, accelerating the adoption of AI-powered underwriting models in a secure, enterprise-grade cloud environment. I mentored team members throughout the process and led stakeholder engagement to support change management and adoption across underwriting teams.

Microservices, Azure Landing Zone principles, Angular, React, Node.js, Azure Foundry, DDD, ADF, SQL Server, Azure Synapse, DWH, Integration Patterns, Vendor API integration, Pricing Modelling, Service Bus, Core API's, Lloyd's Blueprint Two

From 01/2023 – 10/2024

MunichRE Insurance - Solution Architect

I have a solid foundation in solution architecture, with a focus on readiness for Lloyd's Blueprint Two (BP2). Through practical experience and a thorough understanding of BP2 requirements, I have successfully aligned key systems and processes to meet the insurance industry's evolving standards.

I have taken a leadership role in driving BP2 compliance initiatives—overseeing the integration of Lloyd's new gateways, leading the design and governance of EDI message handling, and coordinating with third-party providers to ensure end-to-end compatibility.

I've guided cross-functional teams through impact assessments and implementation roadmaps, balancing regulatory expectations with technical feasibility. This proactive leadership and hands-on expertise enable me to contribute effectively to projects that modernise the insurance sector.

Azure DevOps, Azure Sentinel, Azure WAF, Firewall, Azure Services, Integration patterns, Security patterns, WCL Gateway, TIW gateway, DOCOsoft, EDI messages, IBOT/ICOS, MRC v3, SQL Server, Data Bricks, ADF, TOGAFF, Lloyds Blueprint Two, DOCOSoft, Subscribe, Impact, TIW, ASG Adept Gateway, DXC

From 01/2020 – 01/2023

Lloyd's Of London - Solution Architect

As a Solution Architect on the Future at Lloyds programme, I play a vital role in redesigning the organisation's core systems, including Capital Solution,

Claims Management, Services HUB, and Risk Exchange, as part of the Blueprint Two project. In this role, I am responsible for designing the architecture for all workstreams and the integration layer, working closely with the Data and Security Architects, given the project's size and complexity.

I am also heavily involved in migrating these systems to Azure. My duties include creating blueprint reference documentation for an event-driven Microservice architecture. As a cross-functional architect across multiple workstreams, I produce both HLDs and detailed solution designs, which are reviewed in TDA sessions.

In this role, I have demonstrated strong leadership, technical expertise, and attention to detail in designing and implementing complex software systems that align with the organisation’s business goals.

EA Agile, Sparx System, Microservices, Event-Driven Architecture, Messaging, Azure DevOps, Azure Cloud, SQL Server, TOGAF, ArchiMate, Logic App, Data Factory, Azure SQL Server

From 04/2019 – 01/2020

Awaze – Solution Architect

As a Solution Architect at Awaze, Europe's leading property rental company, I designed a dynamic pricing system to increase revenue and improve booking-curve performance. This involved integrating multiple data sources, such as competitor prices and current bookings and property availability, into an algorithm that generated dynamic pricing. Additionally, I provided a pricing API layer to the company's public-facing booking websites.

In this role, I also led a Scrum team that implemented the solution. As SA, I ensured the development team adhered to the design and best practices outlined in the solution design.

Working at Awaze as a Solution Architect enabled me to apply my expertise to develop innovative solutions that drive revenue and performance. The experience also sharpened my leadership and team management skills, allowing me to lead effectively and mentor development teams to achieve project goals.

System Integration, Micro-Services, Data Processing, Big Data, Encryption, Security, Machine Learning (Linear Regression, Classification), AWS, SQL Server, MongoDB, RabbitMQ, Event Driven Architecture (EDA), Domain Driven Design

From 09/2018 – 03/2019

HSBC Bank – Solution Architect

As a Senior Solution Architect on the HSBC Connected Money Mobile App, I led the design of the API layer backend that served the mobile platform. My primary responsibility was to ensure the seamless integration of a range of tools designed to help customers better understand their finances and manage their money.

To enhance the app's functionality, I oversaw the integration of vendors' APIs to enrich financial transactions, including analysis of spending habits to provide insights into customer behaviour. This gave the app a complete picture of the customer's economic landscape.

Throughout this role, I demonstrated a deep understanding of software architecture and API design, as well as the ability to collaborate with stakeholders and vendors to achieve project goals.

My experience as a Senior Solution Architect on the HSBC Connected Money Mobile App enabled me to develop innovative solutions that enhanced the user experience and helped customers take control of their finances.

Open Banking API, Docker, AWS Services, MongoDB, DynamoDB, MuleSoft, SQL Server, IOS, Mobile Development, B2B Integration, oAuth2, Java, Spring boot, Machine Learning, Payment Integration, Core Banking APIs

From 06/2018- 07/2018

Microsoft – Blockchain Solution Architect

I led a one-month fixed-term project to process digital Traceability. Utilising advanced technologies such as Azure Workbench, Blockchain, and Smart Contracts, I conceived and built a pioneering prototype that laid the groundwork for improved process transparency and efficiency.

Blockchain, distributed ledger, Cloud Computing, MS Azure, SQL Server, Cosmos DB, Azure Functions, Web API, Azure AD

From 01/2018 – 05/2018

Royal Mail Group - Solution Architect

As the Lead Solution Architect for the AHDC project, I orchestrated the architectural planning for RMG time, activities, transactions, employee management, and deliveries. This involved deploying an event-driven architecture using microservices and Docker containers.

Solution Architecture, Cloud Computing, MS Azure, TOGAF, UML, Event Sourcing, Security, SAO, REST, Messaging, OAuth2, JWT, SAML, system integration C# core MQ, Asynchronous messaging

From 10/2016 – 12/2017

HSBC Bank – Solution Architect

Working on the HSBC transformation program: HSBC RBWM (Retail Banking and Wealth Management – greenfield project)
The project is entirely cloud-based.
The project's main objective is to enable onboarding of new-to-bank customers for loans, Account Opening, Credit cards, and mortgages.
Key role responsibilities are listed below:

- Understanding the product requirements - help analyse the requirements and identify critical architecturally significant use cases.
- Manage the relationship between business and external/internal IT services.
- Formulating the end-to-end solution design - creating a solution structure which will meet the various requirements, balancing the goals and constraints of the solution,
- Support the developers – make sure that the developers can realise the architecture.
- Provide innovative and practical designs that account for the end-to-end solution of a function that aligns with the business objectives.
- Optimizing complex systems and working with businesses to solve problems using technology.
- Reusing architectural artefacts like business services, APIs, and functions

Solution Architecture, Cloud Computing, MS Azure, PCF, TOGAF, UML, DDD, Security, SOA, REST, Messaging, OAuth2 OpenID, JWT, Kerberos, SAML, system integration, JAVA, MuleSoft, Springboot, Jenkins, PCF, Amazon, Azure, Oracle, Mongo, IBM MQ, Rabbit MQ

From 07/2016 – 10/2016

Cabinet Office – Solution Architect

Designing the CRM Software Architecture involves gathering requirements, selecting the appropriate technologies and best practices, and managing software suppliers, including outsourcing partners. Drawing upon my experience with GDS (Government Digital Service) standards and methodologies, I ensure that the architecture aligns with government digital transformation principles and delivers efficient, user-centric solutions.

MS Azure, Machine Learning, Python, Spyder, Panda, SciKit-Learn, NumPy, Salesforce, Force.com, ASP.NET MVC, C# , MS SQL Server 2014, Cloud Computing, SOA, Azure ML, Azure ML Studio, AGILE, Scrum, MS Dynamics, High Transactional, Sparx, UML , Rational RUP, E/R , MSIS, Data Analysis

From 09/2015 – 06/2016

IBM – Solution Architect

Design and implement a single-page AngularJS application for a commercial financial service.

AngularJS, C#, JAVA, Visual Studio, Eclipse, Karma, Jasmine, RESTful HTML5, CSS, OData CRM, Microsoft Dynamics, Google Chart, C#, Azure cloud, Azure Service Bus, UML, AGILE, Scrum

From 03/2015 – 09/2015

Reed Exhibitions – Senior Developer

Designing and implementing the Nova platform to provide a single, global platform that accommodates all of RX's web platforms and sites across these business units.

Asp.net MVC, AngularJS, Rest API , SOA, C#- Java –HTML 5- jQuery – EPiServer –MS SQL Server 2008 Windows Services, RabbitMQ, NCache, Service Bus ,DI, AGILE, TDD ,Video Streaming, Salesforce,

From 07/2014 – 03/2015

Total Jobs Group – Senior Developer

SEO optimization, redesign of job search/job result/job detail pages to make them responsive (mobile/tablet), and addition of new features to the existing platform.
Improving the location's radius algorithm (Job Search) and database.

Asp.net MVC 5.0, C#, Site Core 7, HTML 5 , Bootstrap, SQL Server 2012, TDD, BDD, jQuery, Entity Framework, Dependency Injection, AGILE

From 07/2012–06/2014

Faraday Reinsurance Company (City of London) – Contractor – Solution Architect / Senior Developer

Design and implement a new reporting system to replace the legacy "catastrophic risk event" platform.
Redesign the Risk–Event Database.
The application is built on MVC 3.0 and was developed using a TDD approach.

CQRS, Event Sourcing, Asp.net MVC 3.0, C#, WPF - MS Sql Server 2008 , SSIS, Entity Framework 4.2, Windows Service, Jquery, CSS3, HTML/HTML5 Dependency Injection, DDD (all the related patterns), TDD, E/R (database) BDD, Fluent Validation, SiteCore 7 CMS, AGILE

From 05/2012-06/2012

Bio Agency – Contractor – Solution Architect

Developing an E-Commerce platform for selling books online, which has been commissioned by one of the top book publishers in the UK.

Asp.net MVC 3, SiteCore, Entity Framework 4.2, Sql Server 2008, TDD-BDD, Unit Testing, AGILE
Nject, Ioc, Patterns, MemCache, Autonomy Search provider, SilverLight, WPF

From 04/2011-04/2012

Beazley (City of London) – Contractor – Senior Developer

I worked on an enterprise software application to create/manage the Beazley insurance policies.

Asp.net MVC 3.0, Mono Rail MVC, Nvelocity, Nhibernate , DDD, BDD, TDD, CQRS, Event Sourcing, C#, SQL Server 2008, InRule, EngageOne , EpiServer Cucumber, Fitnesse, Cuke4Nuke, Selenium
SpecFlow, Ruby, Ruby Mine, TeamCity, AGILE

From 01/2011-03/2011

ForeSite – Contractor – Senior Developer

Designing and implementing a new web-based application for managing online IT courses (booking courses, catalogue management, content management, search, etc.).

Asp.net MVC 2.0/3.0, MVP-Web Forms MVP, Nhibernate, Fluent Nhibernate, Linq to Nhibernate, Lucene .Net, EpiServer,SQL Server 2008, NCache , GitHub , Moq , StoryQ , Microsoft patterns ,Structure Map, AGILE

From 09/2010-12/2010

Mondial Assistance – Contractor – Senior Developer

Developing the new "Mitsubishi Russia" web platform to manage new insurance policies.

Asp.net MVC 2.0 , Framework 4.0 , C# , Visual Studio 2010 , Entity Framework/Nhibernate , SQL Server 2008 , JQuery , AOP , AJAX , Partial Rendering , Dependency Injection , TDD , BDD , Integration testing , Cruise Control, AGILE

From 04/2010-08/2010

The White Company – Contractor – Technical Leader

Leading the developer team to re-implement the checkout process (based initially on VS2005) because it lacked best practices and the latest patterns.

Asp.net 4.0, Asp.Net MVC 1.0/2.0, Framework 4.0 , C# , Visual Studio 2010 , Entity Framework , SQL Server 2008 , JQuery , AOP , AJAX , Partial Rendering – Dependency Injection , Patterns , TDD , BDD , Integration testing, AGILE

From 01/2010-04/2010

Asos London – Contractor – Senior Developer

Design and re-engineering of the old Asos checkout process to face the high amount of access and transactions, making this process reusable and SOA-oriented to be compliant with the latest Microsoft Patterns and practices

C#-Asp.Net , Asp.Net MVC 1.0/2.0 , Framework 3.5/4.0 , Linq to SQL, DDD , TDD - BDD ,Cruise Control, MOQ, MS SQL Server 2008 , WCF Windsor

Component , AOP , POCO Objects , Repository Pattern ,JQuery AJAX ,HTML , HTML5 , PhoneGap , JQtouch ,CSS, AGILE

From 11/2009-12/2009

ECA Engineering (London)

Design and implementation of the new ECA CRM.

Asp.Net MVC, C#, Nhibernate-Ncache, DDD, TDD, MS SQL Server 2005, WCF, AGILE

From 05/2008-10/2009

Harrods London

- Design and implementation of the integration system to manage the order process.
- Designed and implemented the credit card check system.
  Design and implementation of the Harrods Intranet.
- Technical leader of a small group of junior developers

More details available upon request