Andrian Mamei

CTO at DotGov Solutions

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Summary

I have built government digital services since 2013, in Moldova and for international government clients. At DotGov Solutions I was software architect from September 2020 to September 2026 and have been CTO since October 2026. As architect I designed the DotGov Framework through successive generations: a modular .NET server (2021), a containerised e-services engine (2022) and the .NET 10 / Angular 19 framework that now runs many government systems, where services are configured, not coded. I now lead AI-assisted delivery with Claude Code: agent pipelines, the framework's MCP server, and deterministic validation that keeps AI output checkable.

Experience

DotGov Solutions LLC

Sep 2020 – present

CTO · Oct 2026 – present

Software Architect · Sep 2020 – Sep 2026

Builds and runs DotGov's Government Services Platform: the Data Exchange Platform, data registers, public-service APIs and the DotGov Framework (DGF), the Public Service Builder Framework that government e-services are made with.

- Designed system and database architecture for applications and services, and integrated them with internal and external data sources and APIs.
- Migrated legacy systems from .NET Framework and led the framework's upgrades through successive .NET releases to .NET 10, including a framework-wide move to async code and from Newtonsoft to System.Text.Json.
- Designed an AI agent pipeline for the framework (plan → implement → verify → commit), backed by deterministic Python validators, architecture decision records and unit tests.
- Built the CI/CD and runtime stack: Azure Pipelines, Docker images, a Helm chart for Kubernetes, Redis caching, Traefik, and OpenTelemetry/Prometheus observability.

Integration Architect · e-Governance Agency of Moldova

Nov 2014 – Aug 2020

Integration architect for Moldova's national e-government platforms and e-services: MConnect, MPay, e-Civil Status, the child-allowance e-application and E-Vinieta.

- Designed and implemented integration projects on MConnect, the government interoperability platform, applying Enterprise Integration Patterns.
- Planned and implemented data governance policies; maintained data integrity and consistency across participants.
- Integrated service providers and payment providers with MPay; monitored performance and supported integrators.
- Mentored junior developers on standards and methodologies for data integration development.

IT Consultant · e-Governance Agency of Moldova

Jun 2014 – Nov 2014

Developed the Civil Status Service for the Ministry of Justice: e-services for birth and marriage registration, identity card issuance and civil status verification.

- Integrated the e-services with the government platform services MSign (e-signature) and MPay (e-payments).
- Improved performance and reliability by optimising code, database queries and web service calls.

Software Developer · Code Factory Ltd

Sep 2013 – Jul 2014

Developed business applications for international clients: order management, social job distribution and CRM.

- TruckLand: order management system for a large Dutch company.
- TotalReferal: social media management system for distributing job offers through Facebook, LinkedIn and Twitter.
- iVision: CRM applications synchronising sales, marketing, customer service and support processes.

Software Developer · S.R.L. InfoProfConsulting

Nov 2013 – Mar 2014

Designed and developed OneAer, the national emissions inventory e-reporting service for the State Ecological Inspectorate (Ministry of Environment).

Selected projects

DotGov Framework (DGF) · National data registers programme · Government service bus · Citizen services portal · National data portal · Council e-services · Ministry e-services · E-signature and sign-in services · AI delivery tooling · MConnect · MPay · e-Civil Status services

Skills

Backend: C# / .NET (Framework → .NET 10), ASP.NET / Web APIs, Document generation and signing — OpenXML, PDFsharp, PAdES

Architecture: Integration architecture / Enterprise Integration Patterns, Data governance, integrity and consistency

Data: SQL Server — database design, NoSQL databases

Cloud & DevOps: Docker / Kubernetes, CI/CD — Azure Pipelines, GitHub Actions, Helm, Azure, Ansible, Redis caching, Traefik

Frontend: Angular / TypeScript, Vue.js

Security: Application security — OWASP Top 10, authN/authZ, encryption

Leadership: Agile delivery and team leadership, Architecture decision records

Observability: OpenTelemetry / Prometheus

AI engineering: Claude Code (skills, subagents, hooks, plugins), MCP servers, JSON Schema / XSD validation, Python validators

Education

Bachelor's degree, Applied Informatics — Academy of Economic Studies of Moldova (2011–2014)

Computer Engineering — Polytechnic College Bălți (2007–2011)

Languages

Romanian — Fluent · Russian — Advanced · English — Intermediate