

Michael Melo

Expert AI Engineer & Senior .NET Developer

SUMMARY

- AI Engineer with 10+ years in .NET, specializing in LLM integration, multi-model AI agent platforms, and AI governance for high-liability domains.
- Expert in C#, .NET 8, Blazor, Azure, AWS, and microservices, delivering production APIs with sub-120ms response times at 150k+ daily requests.
- Architected AI-driven anomaly detection flagging 95% of fraudulent transactions and legal SaaS.
- Proficient in Clean Architecture, DDD, CQRS, SOLID principles, event-driven design, and prompt engineering with multi-provider LLM support.
- Experienced in cloud-native CI/CD pipelines, Docker multi-stage builds, Bicep IaC, and real-time messaging with SignalR, RabbitMQ, and Azure Service Bus.

TECHNICAL SKILLS

Main Technical Skills	C# (10 yr.), .NET Core (5 yr.), API (1 yr.), Blazor (3 yr.), Microsoft SQL Server (7 yr.)
AI Tools & Assistants	Claude (1 yr.), GitHub Copilot (1 yr.)
Programming Languages	C# (10 yr.), PHP (4 yr.), TypeScript (3 yr.)
JavaScript Frameworks	Angular (3 yr.)
AI & Machine Learning	Claude (1 yr.), OpenAI (1 yr.)
PHP Frameworks	CodeIgniter (4 yr.)
.NET Platform	Entity Framework (5 yr.), Identity Server (2 yr.), .NET Core (5 yr.), Polly (1 yr.), SignalR (3 yr.)
Databases & Management Systems / ORM	Elasticsearch, Microsoft SQL Server (7 yr.), MongoDB (5 yr.), MySQL (4 yr.), PostgreSQL, Redis
Amazon Web Services	AWS CloudFront (1 yr.)
Azure Cloud Services	Azure AD hybrid identity, Azure Service Bus (3 yr.)
Web/App Servers, Middleware	Apache HTTP Server (3 yr.)
SDK / API and Integrations	API (1 yr.), Google API (1 yr.), RESTful API (1 yr.), Stripe (1 yr.), Twilio (1 yr.)
Deployment, CI/CD & Administration	Blazor (3 yr.), CI/CD (3 yr.), SonarQube (3 yr.)
Methodologies, Paradigms and Patterns	



	Clean Architecture (3 yr.), DDD (3 yr.), microservices (3 yr.), Razor (3 yr.), SOLID (3 yr.), Solution Architecture Design (3 yr.)
Virtualization, Containers and Orchestration	Docker (3 yr.)
Version Control	Git (10 yr.), Gitflow
Mail / Network Protocols / Data transfer	LDAP (3 yr.)
QA, Test Automation, Security	NUnit (1 yr.), xunit (1 yr.)
Message/Queue/Task Brokers	RabbitMQ (3 yr.)
Other Technical Skills	Bicep (1 yr.), Command and Query Responsibility Segregation, Identity governance (1 yr.), Moq (1 yr.)

WORK EXPERIENCE

Founder & AI Engineer - Jvris.ai (Jvris.ai Legal Practice Management SaaS)

Duration: Aug 2026 – Present

Summary:

- Developed a legal practice management SaaS featuring LLM-assisted drafting with automated citation verification against 1,202 official court rulings, mandatory human review, and zero-retention enforcement
- The platform supports multi-tenant onboarding and is built for high-liability legal workflows

Responsibilities:

- Built the LLM integration layer with multi-provider support and encrypted key storage.
- Designed AI governance enforcing mandatory human review and zero-retention policies.
- Architected the platform using C#, .NET 8, Blazor, and SQL Server with self-service onboarding.
- Engineered infrastructure with multi-stage Docker, Azure DevOps CI/CD, Bicep IaC, and Cloudflare R2 storage.

Technologies: C#, .NET 8, Blazor, SQL Server, Docker, Azure DevOps, Bicep IaC, Cloudflare R2, Anthropic, OpenAI

AI Engineer – Agent Platform - Lince Marketing (Independent Project) (Multi-Model AI Agent Platform)

Duration: May 2026 – Present

Summary:

- Architected a pluggable multi-model AI agent platform supporting multiple LLM providers with tool calling, persistent session memory, and cost attribution



- The platform enables multi-tenant agent orchestration with real-time conversational processing and integrates generative AI for image generation

Responsibilities:

- Designed multi-model abstraction layer with tool calling and token usage tracking.
- Built multi-tenant agent system with customizable personas and safety guardrails.
- Developed agent orchestration with async queue pipeline connecting Twilio WhatsApp and SignalR for live updates.
- Integrated Google Gemini generative AI API and implemented automated test suite with NUnit and Moq.

Technologies: C#, .NET, Twilio, SignalR, Google Gemini, NUnit, Moq

Senior Full-Stack Engineer - SolvdUs (Claims Management Platform)

Duration: Jan 2026 – Jun 2026

Summary: Designed and developed an end-to-end claims management platform applying Clean Architecture and SOLID principles to streamline submission-to-approval workflows.

Responsibilities:

- Built platform backend with C#, ASP.NET Core Web API and Blazor.
- Modeled and optimized SQL Server schema using Entity Framework Core.
- Implemented unit and integration tests and maintained code quality with AI-assisted engineering tools.

Technologies: C#, ASP.NET Core Web API, Blazor, SQL Server, Entity Framework Core, GitHub Copilot, Claude

Senior Software Engineer - Voolt (Event-Driven Backend and Internal Tools)

Duration: Nov 2024 – May 2025

Summary: Developed an event-driven backend system with Azure Service Bus and real-time Blazor Server modules to improve internal tool adoption and reduce message-processing latency.

Responsibilities:

- Developed C# ASP.NET Core backend with Azure Service Bus message queuing.
- Built Blazor Server modules with SignalR real-time updates.
- Established Azure DevOps CI/CD pipelines to accelerate release cycles.
- Implemented Stripe and Meta REST API integrations.

Technologies: C#, ASP.NET Core, Azure Service Bus, Blazor Server, SignalR, Azure DevOps, Stripe API, Meta REST API

Senior Software Engineer - National Western Life & Insurance by Mantissa Group LLC (Legacy Insurance System Cloud Migration)

Duration: Aug 2023 – Jul 2024

Summary:

- Led cloud migration of a legacy insurance system to modern Azure and



- NET Core technologies, significantly reducing infrastructure costs and improving API performance for high-volume daily requests

Responsibilities:

- Led migration to Blazor Server, Azure Functions, and .NET Core.
- Designed Azure DevOps CI/CD pipelines enabling zero-downtime releases.
- Optimized SQL Server queries and indexing to reduce API response times from 800ms to under 120ms.
- Conducted code reviews and mentored development team.

Technologies: C#, Blazor Server, Azure Functions, .NET Core, Azure DevOps, SQL Server

Senior Software Developer - Visual Solutions Software Consultants (Legacy WebForms Modernization to Microservices)

Duration: Nov 2021 – Jun 2023

Summary:

- Led modernization of a legacy WebForms application to a microservices architecture using C# Blazor and
- NET Core, introducing asynchronous messaging and hybrid data access to improve scalability and maintainability

Responsibilities:

- Modernized legacy WebForms app to C# Blazor and .NET Core microservices.
- Introduced RabbitMQ asynchronous messaging and MongoDB alongside SQL Server.
- Enforced engineering quality with unit testing, SonarQube, and structured code reviews.

Technologies: C#, Blazor, .NET Core, RabbitMQ, MongoDB, SQL Server, SonarQube

Senior Full Stack Developer - Omnibeers (High-Volume Hotel Distribution Platform)

Duration: Nov 2020 – Nov 2021

Summary: Developed a high-volume hotel distribution platform handling over 5 million bookings per month, integrating multiple sales channels and optimizing transactional throughput.

Responsibilities:

- Developed microservices backend with C# and .NET Core using message-bus architecture.
- Built frontend with Angular.
- Optimized SQL Server queries and stored procedures for high throughput.
- Maintained code quality with SonarQube, unit testing, and pair programming.

Technologies: C#, .NET Core, Angular, SQL Server, SonarQube

Mid/Senior Software Developer (Consultant) - Ecocard Sistemas (AI-Driven Anomaly Detection Engine and Secure Financial Platform)

Duration: Oct 2019 – Nov 2021



Summary: Designed and built an AI-driven anomaly detection engine for real-time fraud detection in financial transactions and developed secure WebAPI integrations with cryptographic vaults for an ISO-27001-compliant platform.

Responsibilities:

- Developed anomaly detection engine flagging 95% of fraudulent transactions in real time.
- Implemented secure C#/.NET WebAPI integrations with cryptographic vault infrastructure.
- Implemented IdentityServer authentication and authorization.

Technologies: C#, .NET, WebAPI, IdentityServer, Fornetix, Kryptus

Systems Analyst - CEI (Computer Vision AI for Student Emotion Recognition)

Duration: Jul 2017 – Oct 2020

Summary: Independently designed and delivered a computer vision AI project to recognize students' emotions during exams in real time, aiding in identifying focus areas for each student.

Responsibilities:

- Designed and built computer vision AI system for emotion recognition.
- Worked with C#, .NET MVC, .NET Core, Angular, SQL Server, Oracle, and microservices.
- Managed Linux server infrastructure and ERP integration.

Technologies: C#, .NET MVC, .NET Core, Angular, SQL Server, Oracle, Linux, Apache, LDAP, TOTVS ERP

Senior Developer - IVIA (Lawsuit Management System and Digital Document Signing)

Duration: Apr 2014 – Apr 2017

Summary: Built a lawsuit management system for state attorneys integrated with multiple external systems and developed desktop agents for digital document signing using hardware certificates.

Responsibilities:

- Developed lawsuit management system with C#, .NET MVC, WebForms, Angular, SQL Server, and MongoDB.
- Created Windows Forms desktop agents for digital certificate signing automating manual workflows.

Technologies: C#, .NET MVC, WebForms, Angular, SQL Server, MongoDB, Windows Forms

Developer → Team Lead - Maxmeio (Web Systems Development and Linux Hosting Infrastructure)

Duration: Apr 2010 – Mar 2014

Summary: Developed web systems using PHP and managed Linux hosting infrastructure including server configuration, deployment, and backups, progressing from developer to team lead.



Responsibilities:

- Built web systems with PHP (CodeIgniter, OOP), MySQL, and MSSQL.
- Managed Linux hosting infrastructure end-to-end.
- Led team as team lead.

Technologies: PHP, CodeIgniter, MySQL, MSSQL, Linux

EDUCATION

- **Universidade Paulista – Analysis and Systems Development, Information Technology**
2017 – 2018

