

Caio Chagas

Principal .NET Developer | Backend Tech Lead transitioning into AI Engineering | Agentic Systems, LLMs, RAG-ready Memory & Developer Automation

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PROFESSIONAL SUMMARY

Principal .NET Developer and Backend Tech Lead with 26 years of experience designing, building and modernizing enterprise software systems across telecom, banking, shipping, insurance, pharmaceuticals, cloud platforms and large-scale corporate environments. Core background in C#, .NET, ASP.NET Core, SQL Server, REST APIs, WCF/SOAP, Azure, legacy modernization, system integration and backend architecture. Currently evolving toward AI Engineering, with focus on agentic systems, LLM integration, RAG-ready memory, function calling, tool execution loops, AI-assisted SDLC and developer automation.

CORE POSITIONING

Enterprise Backend Engineering	C#, .NET, ASP.NET Core, APIs, SQL Server, Azure, legacy modernization, system integration and high-complexity backend delivery.
AI Engineering	LLM integration, OpenAI Responses API, function calling, tool execution loops, RAG-ready memory and agentic workflows.
Developer Automation	AI-assisted SDLC, GitHub issue orchestration, planning, verification, pull request automation, run summaries and delivery traceability.
Technical Leadership	Architecture decisions, cross-team coordination, QA/UAT alignment, production troubleshooting and pragmatic delivery in enterprise environments.

FEATURED AI PROJECTS

Agent Foreman - AI Coding Agent Mission Control

Personal R&D; Project | C#, .NET, ASP.NET Core Minimal API, PostgreSQL, Claude CLI, Codex CLI, GitHub CLI, Next.js | github.com/caiohomem/agent-foreman

- Designed and developed a mission-control system for AI coding agents that coordinates GitHub issues through planning, implementation, verification, pull request creation, persistent mission state, quota-aware pause/resume and event logging.
- Implemented Claude CLI planning into plan.md, Codex CLI execution into codex-exec.log and configured test execution into tests.log.
- Built a PostgreSQL state store for missions, events, provider state and run summaries, creating RAG-ready execution memory artifacts for future retrieval.
- Created a read-only ASP.NET Core Minimal API and a standalone Next.js dashboard for mission monitoring.

Assistente - AI Assistant with Tool Execution

Personal AI Project | C#, .NET, OpenAI Responses API, Function Calling, MediatR, Workflow Automation | github.com/caiohomem/assistente

- Developed an AI assistant platform using OpenAI Responses API, function calling and tool execution loops.
- Implemented domain tools for contacts, reminders, notes, drafts, templates, letterheads, workflow execution and approvals.
- Designed backend logic for iterative model-tool interaction, result feedback and user-specific automation.

PROFESSIONAL EXPERIENCE

Principal Developer / AI-Augmented Backend Engineer - BOLD by Devoteam

Lisbon, Portugal | Apr 2020 - Present

- Principal .NET Developer working as a consultant across enterprise projects in telecom, banking and backend modernization.
- Combines C#/.NET backend development, legacy system analysis, API integrations, workflow automation, Azure DevOps, Scrum delivery and technical consulting.
- Applies AI-assisted software engineering practices using GitHub Copilot, OpenAI Codex, Claude and ChatGPT for analysis, implementation, documentation and delivery acceleration.

Microsoft / MEO - Altice Portugal - Principal Developer .NET Backend

Lisbon, Portugal | Apr 2025 - Jun 2026

- Technical consulting in a high-complexity enterprise environment focused on C#/.NET backend development, legacy systems, critical feature implementation and impact analysis.
- Supported dependency mapping, QA alignment, delivery efficiency and AI-assisted development workflows.

Vodafone Portugal - Tech Lead .NET Backend Developer

Lisbon, Portugal | Nov 2020 - Aug 2024

- Led the creation of the Rollout Tool, a digital platform built from the ground up to support Vodafone radio network rollout operations.
- Designed flexible generic data structures and API-based access using ASP.NET, C# and SQL Server relational modeling.
- Implemented workflow automation using Elsa Workflows, enabling functional analysts to model operational processes.
- Supported RAN sharing with NOS, involving large-scale infrastructure collaboration and information exchange between operators.
- Helped replace manual and legacy-system processes with automated workflows, improving operational coordination and efficiency.

Banco BPI - Principal Software Developer

Lisbon, Portugal | Apr 2020 - Oct 2020

- Maintained legacy .NET systems and analyzed production problems in the banking sector.
- Supported the BPI monitoring platform using Elastic Stack, Elasticsearch, Logstash, Kibana, InfluxDB and Grafana.

Carlsberg Group - Principal Software Developer

Lisbon, Portugal | Dec 2018 - Mar 2020

- Developed backend services for customer onboarding and internal portals using .NET Core, Azure Key Vault, Azure Cosmos DB, SQL Server and Azure Functions.
- Built React/.NET Core Web API solutions and used Azure DevOps for delivery lifecycle management.

Deco Proteste - Principal Software Developer

Lisbon, Portugal | Jun 2018 - Nov 2018

- Improved the main Deco Proteste website using .NET Core/C# backend services, MVC/React frontend and Sitecore CMS.
- Worked with Scrum, xUnit, Moq, integration tests and TeamCity-based continuous integration.

Grupo ETE - Principal Software Developer

Lisbon, Portugal | Nov 2017 - May 2018

- Developed WebSap, a system for contracts, costs, fleets and mobile equipment across the group.
- Applied ASP.NET MVC, Web API, Entity Framework, SQL Server, DDD, Repository Pattern and Dependency Injection.

SAGE IOB Brasil - Principal Software Developer

São Paulo, Brazil | Jan 2017 - Aug 2017

- Developed streaming, mobile and web solutions using Azure Media Services, Docker, ASP.NET Core, MVC, SQL Server, MySQL, DevExtreme, Knockout, DDD and TDD.

Microsoft Corporation - Senior Software Developer / Consultant

São Paulo, Brazil | Jan 2013 - Dec 2016

- Developed C# frameworks, Azure-based solutions, Bing Translator software and enterprise integration tools.
- Participated in the Rio 2016 digital platform, using Azure, MVC and AngularJS for high-traffic Olympic websites.
- Built Integrated Quality Center, integrating IBM Rational Team Concert with Microsoft Team Foundation Server to generate quality indicators for .NET systems.

Earlier Career - MSC, Janssen-Cilag, Allianz, KA Solution

Brazil | 1999 - 2012

- Delivered software systems in shipping, pharmaceuticals, insurance and web development using C#, ASP.NET, VB.NET, SQL Server, Web Services, SharePoint, WPF, UML and enterprise integration patterns.

SKILLS

AI Engineering: LLMs, OpenAI API, OpenAI Responses API, Claude, Codex, GitHub Copilot, Function Calling, Tool Execution, RAG-ready Memory, Agentic Workflows, AI-assisted SDLC, Prompt Engineering, Rubric Design, Multi-model Evaluation

Backend: C#, .NET, ASP.NET Core, ASP.NET MVC, REST APIs, Web API, WCF, SOAP, Entity Framework, LINQ, SQL Server, MySQL, ADO.NET, Web Forms, WPF

Cloud & DevOps: Microsoft Azure, Azure Functions, Azure Key Vault, Azure Cosmos DB, Azure DevOps, Docker, Git, GitHub, CI/CD, TeamCity

Architecture: Legacy Modernization, System Integration, Domain-Driven Design, Design Patterns, API Architecture, Workflow Automation, Production Troubleshooting

Frontend: Next.js, React, JavaScript, TypeScript, HTML, CSS, Tailwind CSS

EDUCATION

Degree in Data Processing - FATEC Baixada Santista, Santos, Brazil (1998 - 2000)

LANGUAGES

Portuguese: Native | English: B2 - Professional Working Proficiency, actively improving toward C1