Calogero Miraglia

SOFTWARE ENGINEER | Enterprise Software · AI Agents · LLMs & MCP

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PROFESSIONAL SUMMARY

Software Engineer with over 10 years of experience building enterprise, web, and mobile applications. Consulting experience across insurance, energy, retail, automotive, and media. Currently combining legacy-system modernization with the design and development of AI agents, OpenAI integrations, and Model Context Protocol (MCP) tools, with a strong focus on access control, testing, and functional continuity.

TECHNICAL SKILLS

AI & architecture: OpenAI, AI agents, MCP, OpenSpec, agentic harnesses, Specification-Driven Development (SDD), TDD, DDD, Clean Architecture, CQRS.

Backend: NestJS, C#, .NET / .NET Core, Java, Spring, REST APIs, Entity Framework, JPA/Hibernate, SQL.

Frontend & mobile: TypeScript, JavaScript, Angular, AngularJS, React, Next.js, Microsoft FAST, React Native, Capacitor, HTML, SCSS.

Tools & practices: Git, Webpack, Vite, Vitest, end-to-end testing, microfrontends, Module Federation, Agile/Scrum.

PROFESSIONAL EXPERIENCE

Wolters Kluwer Italy | Software Engineer

Rome, hybrid | April 2026 – Present | Consulting engagement on the project since July 2024

- Modernizing a software platform for accounting professionals: migrating a legacy Razor/AngularJS frontend to Microsoft FAST, MVVM components, and repository/service layers; migrating the backend from .NET MVC to .NET Core.
- Built an OpenSpec-based agentic harness to support task analysis, user stories, architecture decision records (ADRs), proposals, specifications, and functional/visual parity criteria.
- Established end-to-end tests and screenshot baselines for the legacy system, adapted tests to the modernized platform, and introduced checks through skills, guardrails, agent hooks, and Git pre-commit hooks to reduce migration-related regression risk.

Nexa Data | Senior Frontend Developer

Rome, hybrid | June 2025 – March 2026

- Designed an agentic architecture and developed an OpenAI integration layer with capabilities exposed through MCP tools, using a NestJS backend with Clean Architecture and CQRS.
- Integrated WhatsApp messages with a transportation/chauffeur-service management platform for customers, vehicles, bookings, deduction checks, driver calendar-file delivery, and custom analytics.
- Implemented backend authorization checks and MCP tool calls that respect the authenticated user’s permissions. The solution was used operationally and qualitatively reduced manual work when responding to requests and retrieving data.

Taal | Software Developer

Rome | April 2015 – April 2026

- Developed enterprise frontend, backend, and mobile applications, integrating APIs, legacy systems, and business services. Major consulting engagements and projects are listed on the following page.

CALOGERO MIRAGLIA | Selected Consulting Projects

CONSULTING ENGAGEMENTS & SELECTED PROJECTS

Project timeline is separate from employment history. Recent confidential engagements are described without disclosing product or customer names.

Sky | January – June 2024

Built an Angular portal to configure AI rules and parameters for advertising campaigns, including dynamic interfaces and integration with background analysis processes.

Poste Italiane / Toyota | July – December 2023

Developed a custom Netlify-based CMS, an Angular interface for an AI chatbot, and an enterprise ticket-management application using lazy loading and Module Federation for independently deployed modules.

SnaiFun | January – June 2023

Delivered mobile features integrated with Snai systems and customizable 3D avatars using Three.js, including dynamic loading of user-selected accessories.

Luxottica | 2021 – 2022

Developed a brand-configurable React microfrontend, customized builds with Webpack, and integrated webcam-based virtual glasses try-on. Used Next.js and static page generation based on content configuration.

NTT DATA | 2018 – 2020

Developed ServiceNow portals for enterprise customers including Enel and Eni; a modular Java/Spring and AngularJS platform; and React Native ticketing and logistics applications with offline/online sync, scanning, and NFC.

Entando | 2017

Developed institutional websites and web applications on the Entando platform, including projects for ATAC and the Italian Prison Administration, customizing components and integrating external services.

Generali | 2016

Developed insurance applications using C#, .NET Framework, ASP.NET MVC, AngularJS, and Entity Framework, with REST APIs and Active Directory integration for authentication and authorization.

MetLife | April – December 2015

Built insurance-policy management applications using Java, Spring, and JPA/Hibernate, including REST APIs, data access, and integrations with legacy systems.

Additional experience: ITAttitude — software development and consulting, May – December 2015.

EDUCATION & COURSES

- Building Agentic AI Systems — LinkedIn, May 2026
- The New AI Tech Stack: AI Literacy for Tech Leaders — LinkedIn, May 2026
- Responsible AI Algorithm Design — LinkedIn, May 2026
- Entando Front-end Developer — Entando Inc.
- Diploma in Accounting and Computer Programming — Istituto Tecnico Commerciale G. B. Ferrigno, Castelvetrano, 2009–2014; final grade 84/100.