Federico Rocco Di Menna

Software Developer | AI Engineer

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PROFILE

Full stack developer and startup founder who ships production web platforms and autonomous AI agents. Hands-on experience with LLM and RAG evaluation from an R&D internship at Cineca, custom TypeScript agent harnesses, and both local (vLLM) and cloud LLM deployments. Studying Computer Engineering at the University of Bologna while working full time.

EDUCATION

BSc in Computer Engineering, University of Bologna*2025 – Expected 2028*

Average 26/30 | 57 credits (CFU) earned, all of first year completed

High School Diploma, Liceo Scientifico (Applied Sciences), 85/100

EXPERIENCE

Founder | OMA Agents *Apr 2025 – Present*

- Founded an autonomous agent provider delivering on-premise and cloud AI solutions that reduce time companies spend on repetitive tasks.
- Built **MEM**, an agent that connects a company's archive (Gmail, Outlook) into one knowledge base to chat with documents and generate, edit and compare files, and a **Restaurant Booking Agent** handling bookings, menus and FAQs over WhatsApp and web with an admin dashboard. Both are ready to sell.
- Moved from n8n workflows to custom TypeScript (TSX) agent harnesses for enterprise-grade solutions; run local models with vLLM and cloud LLM APIs such as DeepSeek; integrate tools via MCP.
- Currently closing first contracts for custom-built agents.

Full Stack Developer | Gruppo Ingegneria *Sep 2025 – Present*

- Deliver portfolio sites, e-commerce and IoT systems with Next.js, WordPress (custom PHP plugins), Payload CMS, Sanity CMS, PostgreSQL, Supabase and Docker; harden forms and sites with Cloudflare Turnstile and honeypots.
- **FormazioneCloud** (co-developed in a team of two): live platform delivering certified courses, such as security training, to companies. Built the course management and company management modules (registering companies and enrolling their workers in mandatory courses) and co-built the videoconferencing feature.
- **MekkaLink** (co-developed in a team of two): live IoT and contract/production management platform built to Italian compliance requirements, helping companies qualify for state incentives. Built the UI and the MVP.

R&D Intern | Cineca *Jun 2024*

- Human-evaluated about 100 responses from **Modello Italia**, the Italian generative AI model, on accuracy, context management and fluency.
- Evaluated the internal RAG system used to answer questions on company policies with frameworks such as RAGAs, and contributed to research on improvements including multi-query retrieval and answer-reliability checks against the prompt.

PROJECTS

- **TapDeck**: macOS tool that turns the desk under the computer into physical buttons by using the Mac's built-in sensors to detect taps and trigger actions.
- **Second-brain app**: personal knowledge-management tool inspired by Obsidian and optimized for working with Claude.

TECHNICAL SKILLS

Languages: TypeScript/TSX, JavaScript, Python, Java, C, PHP, SQL

Web and CMS: Next.js, React, WordPress (custom plugins), Payload CMS, Sanity CMS, FastAPI

AI and LLMs: Custom agent harnesses, MCP, RAG and RAG evaluation (RAGAs), vLLM, cloud LLM APIs (DeepSeek), n8n, knowledge graphs (Graphify, Graft)

Data: PostgreSQL, Supabase, Neon, pgvector

Tools, DevOps and security: Git, Docker, Vercel, Cloudflare (Turnstile, honeypot)

LANGUAGES

Italian (native) | **English** (IGCSE, grade B, 2024) | **Spanish** (certificate, high A2)

INTERESTS AND COMMUNITY

Cooking; AI video generation and editing for personal travel videos; Active member of the TypeSafe AI Discord community, where members build systems with the latest AI tools.