Mattia Smacchia

AI Engineer

CONTACT

LOCATION
Berlin, Germany

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PORTFOLIO
masm.dev

GITHUB
github.com/Nelev

SKILLS

AI & LLMs

LangGraph · LangChain · RAG · pgvector · MCP · Tool calling · LLM evals · Guardrails · OpenRouter · Ollama

Backend

Python · FastAPI · Node.js · C# / .NET · PostgreSQL

Frontend

TypeScript · React · Next.js · Tailwind · deck.gl · Three.js

Cloud & DevOps

Docker · Azure · AWS · GitHub Actions

EDUCATION

Degree in Computer Science
University of Urbino "Carlo Bo"
2007 – 2013

LANGUAGES

Italian	Native
English	C1
German	A1

PROFILE

AI engineer with 10+ years of software development experience. I build LLM agents and RAG applications end to end, from the LangGraph workflow and the FastAPI service behind it to the Next.js interface people use, with a focus on human-in-the-loop systems for regulated domains like pharma and healthcare.

EXPERIENCE

Frontend Engineer — 2019 – 2026
DHI WASY GmbH · Berlin

- Delivered 10+ greenfield geospatial and water-modelling web apps in React, TypeScript and Node.js.
- Cut render time for large meshes by 30% with web workers and deck.gl.
- Architected a data-visualisation component library adopted by 50+ developers.
- Migrated the desktop software portfolio to cloud-native apps on Azure and Docker.

Full-Stack Node.js Developer — 2017 – 2019
TeamSystem S.p.A. · Rome

- Built the company's new cloud applications on AWS with React, Node.js and PostgreSQL.
- Developed tools to run and monitor customer migrations from on-premise to AWS.

Junior Full-Stack Python Developer — 2014 – 2017
TeamSystem S.p.A. · Rome

- Co-built the internal CMS used by other teams, reducing bugs and onboarding time.
- Developed front-end components for the company's cloud products.

AI PROJECTS

CoA Agent
github.com/Nelev/coa

Agent that checks pharma Certificates of Analysis against plant specs, with human-in-the-loop review and a graph vs. ReAct eval.

LangGraph · FastAPI · pgvector · Next.js

Medas
github.com/Nelev/medas

RAG assistant over a patient's own medical record, with server-side auth and every query scoped to the user.

FastAPI · Next.js 16 · PostgreSQL · Clerk

Interview App
github.com/Nelev/interview-app

Turns a job description into likely questions and scores answers with an LLM judge; JSON-schema outputs block prompt injection.

FastAPI · OpenRouter · React 19

MCP Mesh Generator
github.com/Nelev/mcp-agent-app

MCP server and REST API turning GeoJSON into 3D meshes with a local LLM, rendered on a live map.

MCP · Ollama · Express · Three.js