

RICCARDO DEANGELIS

SOFTWARE ENGINEER



CONTACT

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- Milan (MI)
- [Website](#)
- [LinkedIn](#)
- [GitHub](#)
- [Hugging Face](#)

TECH STACK

- Python, Java, C, TypeScript
- Flask, Django, Spring Boot, REST APIs
- React, Next.js, React Native, Expo
- PyTorch, Hugging Face, PEFT/LoRA
- LLM fine-tuning, GGUF, llama.cpp, Ollama
- Computer vision: YOLO, YOLOE, NCNN
- Edge AI: Hailo-8L, Raspberry Pi
- Docker, Linux, systemd, Nginx
- PostgreSQL, MySQL, MongoDB, Redis
- Git, CI/CD, Linux & DB hardening

LANGUAGES

- Italian (Mother tongue)
- English (Good)
- Spanish (Basic)



PROFILE

Software Engineer working across full-stack development and applied AI, currently completing my MSc at Politecnico di Milano. At LyoTech I build the entire chain of an elderly care monitoring platform: Flask and Django backends, React Native and Next.js frontends, and the computer vision that runs on the devices themselves — real-time fall detection on Raspberry Pi with Hailo accelerators, holding 15 fps on hardware that has no business doing it.

Outside of work I train, distill and quantize open-source reasoning LLMs. My released models have passed 50,000 downloads on Hugging Face, with 39k on a single Qwen-based release. I also handle the parts most people skip: Linux and database hardening, encrypted backups, GDPR and MDR compliance for medical software.

Full portfolio on my website and GitHub.



WORK EXPERIENCE

LyoTech

Software Engineer

2024 - PRESENT

- Designed and shipped an end-to-end elderly care monitoring platform: Flask/MongoDB/Redis backend, React Native mobile app, and on-device computer vision across a fleet of Raspberry Pi units managed via systemd and Tailscale VPN.
- Trained and deployed a custom YOLOE segmentation model (mAP50 0.872 on 9,400 annotated images) for fall detection, running at 15 fps on Raspberry Pi 5 with Hailo-8L acceleration through NCNN-optimised inference.
- Built and maintain the production infrastructure: Dockerised services, encrypted backups, SSH and database hardening, plus the GDPR/MDR documentation required to bring the system to market as medical software.



EDUCATION

Master's degree in Computer Science and Engineering

2025 - 2027

- Politecnico di Milano

Bachelor's degree in Computer Science and Engineering

2022 - 2025

- Politecnico di Milano
- Final grade:** 107/110