



Lorenzo Signorelli

AI SOFTWARE ENGINEER

CONTACT

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SKILLS

AI / MACHINE LEARNING

PyTorch · LangGraph · LangChain · YOLO · OpenCV · Azure AI Foundry · SAM · AI Agents

LANGUAGES & FRAMEWORKS

Python · TypeScript · Java · C++ · C# · Go · React · Next.js · Node.js · Spring · .NET

TOOLS & PLATFORMS

Git · Docker · Linux · Azure · Vercel · Cursor · Claude Code

LANGUAGES

Italian	Native
English	C2 (Proficient)

INTERESTS

- AI Agents & RAG
Multi-agent systems, retrieval-augmented generation, specification-driven development.
- Computer Vision
Segmentation, detection, 3D perception, domain adaptation.
- Robotics
ROS1/Noetic, RTAB-Map, Gazebo, Habitat-Sim.

PROFILE

AI Software Engineer with 3+ years of professional experience building agentic AI systems, computer vision pipelines and full-stack applications. Currently designing AI architectures for Toyota at Silicon Shoring Reply; previously lead AI engineer on ARES, a fully autonomous offensive-security kill chain, at DODO. Skilled in Python, TypeScript, Java and Go across LangGraph, LangChain, PyTorch, YOLO, React and Spring. BSc in Computer Science from the University of Milan.

EXPERIENCE

- AI Specialist / AI Architect — Toyota** May 2026 – Present
Silicon Shoring Reply · Milan, Italy · Hybrid
Architecting and shipping production agentic AI systems for Toyota — powering AI assistants, enterprise knowledge retrieval and intelligent decision support across core business processes. Built on LangChain and Azure AI Foundry.
- Lead AI Engineer — ARES** Mar 2026 – Aug 2026
DODO · Remote
Lead engineer on ARES, a fully autonomous kill chain. Given a security objective, it carried out the entire engagement end-to-end on its own and returned a report of what it found and verified — work that would otherwise take a human penetration-testing team.
- AI Consultant — Stellantis** Jan 2026 – May 2026
Silicon Shoring Reply · Milan, Italy · Hybrid
Drove adoption of modern, AI-assisted development practices across Stellantis engineering teams, streamlining workflows and accelerating delivery of business-critical solutions.
- Back-End Developer — ARIA** Sep 2025 – Jan 2026
Silicon Shoring Reply · Milan, Italy · Hybrid
Sole owner of the backend powering the DAT management system for Regione Lombardia — designed, built and maintained scalable, secure Spring services running a region-wide public-sector platform.
- AI Engineer** Dec 2024 – Sep 2025
FastStackLabs · Hybrid
Built a YOLO-based computer vision pipeline that tracks basketball players and generates live box scores from raw game footage, replacing manual stat-keeping. Also delivered agentic AI solutions for clients.
- Web Developer** Sep 2023 – Dec 2024
FastStackLabs · Hybrid
Delivered custom client websites end-to-end — from design to deployment — with React.js and JavaScript while studying full-time.
- Web Scraping & Data Analysis — Argenta S.p.A.** Dec 2022 – Sep 2023
FastStackLabs · Remote
Built an automated pipeline that scrapes and digitizes PDFs into structured CSV data, replacing manual data entry. Selenium, BeautifulSoup, Pandas.

EDUCATION

- BSc in Computer Science** 2022 – 2025
University of Milan · Milan, Italy
104/110
- Diploma in Computer Science** 2018 – 2022
ITIS Paleocapa · Bergamo, Italy
100/100