

LORENZO GALLONE

SOFTWARE ENGINEER

CONTACT

- lorenzo.gallone@gmail.com
- Rome, IT
- LinkedIn
- Portfolio

LANGUAGES

- Italian – Native speaker
- English – C1 (IELTS 7.0)

CORE SKILLS

- Full-Stack Development
- LLM Integration & AI Agents
- Frontend Architecture
- Backend API Design
- Databases & ORM
- DevOps & CI/CD
- Kubernetes & On-Prem Deployment
- System Design
- Agile Methodologies

CERTIFICATIONS & SOFT SKILLS

- Certified Alpine Ski Instructor (Collegio Maestri di Sci del Piemonte, 2021)
- IELTS 7.0 – C1 (2023)
- Problem-Solving & Adaptability
- Cross-team Collaboration
- Leadership & Teamwork

ABOUT ME

Software engineer building full-stack enterprise web platforms with **AI built in**, as part of the architecture rather than an afterthought. At MarketLabs I work on Compass, an enterprise platform for large industrial organizations; before that I built mission-critical web applications for European space programmes at Altec. Double MSc (UIC, GPA 4.0/4.0 · Politecnico di Torino, 110 cum laude) with a thesis on improving LLM-generated code.

PROFESSIONAL EXPERIENCE

Full-Stack Engineer
MarketLabs, Rome, Italy — October 2026 – Present
Compass, an enterprise platform that helps large industrial organizations manage projects and turn their data into insight.

- Building product features end to end, from data and backend to the web interface, with **TypeScript**, **Next.js**, **NestJS** and **PostgreSQL**
- Developing automations and **AI-agent** features that work on company data
- Turning business needs into product requirements together with stakeholders
- Shipping to production through **CI/CD** on **Kubernetes**

Full-Stack Engineer
ALTEC S.p.A., Turin, Italy — September 2025 – October 2026
Mission-critical web applications for the Lunar Mission Control Center (LMCC) and the ExoMars programme, supporting European space exploration.

- Responsive UIs with **Vue.js**, **TypeScript**, PrimeVue and **Tailwind CSS**
- Backend **REST APIs** in **NestJS** with Swagger and **PostgreSQL**
- On-premises deployments with **Docker** and **Kubernetes**, pipelines on **GitLab CI/CD**
- Authentication and authorization with **OAuth2** and **JWT**

EDUCATION

Master of Science in Computer Science — GPA 4.0/4.0
University of Illinois Chicago, USA — May 2025

Master's Degree in Software Engineering — 110/110 cum laude
Politecnico di Torino, Italy — July 2025 · double degree with UIC

Bachelor's Degree in Computer Engineering — 108/110
Politecnico di Torino, Italy — July 2023

PROJECTS

Zitto e Corri
Personal project — 2026 – Present
AI running coach delivered as a **PWA** (**Next.js**, **Supabase**). The **LLM** returns structured output validated with Zod and proposes plan changes that the athlete approves; per-task model routing across Gemini and OpenRouter with cost tracking. Syncs workouts to Amazfit watches through Intervals.icu.

TIGER: Testing and Improving Generated Code with LLMs
Master's thesis, University of Illinois Chicago — Oct 2024 – Jul 2025
Framework that improves **LLM**-generated Python code through an iterative **test-feedback loop**. Evaluated on 10 open-source repositories: up to 30% higher success rate than one-shot generation.

Fanta F1
Personal project — 2023 – Present
Formula 1 fantasy league as a **React** PWA on **Firebase**: scheduled Cloud Functions sync race data, live standings and automatic scoring, push reminders before qualifying, CI/CD with **GitHub Actions**.

TECHNICAL SKILLS

Languages: TypeScript / JavaScript · Python · SQL / NoSQL · HTML / CSS · Bash · Java · Kotlin · C / C++

Frameworks & tools: React / Next.js · Vue.js · Node.js / NestJS · REST APIs / Swagger · Tailwind CSS · PostgreSQL / MongoDB · Supabase / Firebase · Docker / Kubernetes · GitHub Actions / GitLab CI · LLM APIs (Gemini, OpenRouter)