

Lorenzo Delitala

Computer Science graduate

I graduated in Computer Science at the University of Pisa in 2026, with a bioinformatics thesis: an end-to-end pipeline and R package for analysing single-cell genetic data. I still maintain it. I also run my own self-hosted LLM server, which provides a ChatGPT-style chat and an API for me, family and friends. Before that, I taught digital skills to school teachers and worked various jobs to pay for my studies.

Education

Bachelor's Degree in Computer Science, Università di Pisa Nov 2022 – Oct 2026

➤ Thesis "Can we recover differential transcript usage (DTU) from scRNA-seq?", supervised by Prof. Silvia Galfré and Prof. Corrado Priami: I built an end-to-end pipeline and an R package to analyse single-cell genetic data (see Projects).

➤ Top marks: Programming Paradigms (30/30 cum laude), Statistics (30/30 cum laude), Programming & Algorithms (30/30), Software Engineering (30/30), Programming Lab II (28/30).

➤ Other courses: Physics, Computer Architecture & Operating Systems, Databases, Computer Networks, Cloud Computing, Operations Research, Numerical Analysis, Introduction to AI, Human-Computer Interaction.

Mechanical Engineering, Università di Pisa

Sep 2020 – Nov 2022

➤ Passed Calculus and Linear Algebra, later recognised towards the Computer Science degree when I switched in November 2022.

Projects

sc-isoform-cotan github.com/ldelitala/sc-isoform-cotan

Bachelor's thesis in computational genomics, a field outside my degree programme. Cells produce different versions of the same gene: the thesis tests whether a statistical method designed for whole genes can detect which version each group of cells favours. The work required acquiring the underlying biology and the field's tooling.

➤ Built an automated pipeline (Nextflow) that downloads public sequencing data and turns it into a table of which gene versions each single cell uses.

➤ Adapted an existing statistical method (COTAN) from whole genes to gene versions, packaged it as a documented R library, and applied it to two public datasets.

➤ Ran the heavy computation on the university's compute server, with pinned software environments and automated code checks.

➤ Made the results fully reproducible: a check regenerates the published results exactly (3 out of 3 cases).

Self-hosted LLM server

Inference server on a Mac Studio running DeepSeek and Qwen models (200B+ parameters): llama.cpp, OpenAI-compatible LiteLLM gateway, LibreChat front end, served over HTTPS behind a reverse proxy, all in Docker. Local voice transcription (Whisper) and vision-model OCR.

Compass github.com/ldelitala/Compass

Agentic memory for solo development: an archivist agent builds a living project wiki from commits, using AST/LSP to cut code drift and hallucinations.

Work Experience

Trainer, Informa S.r.l., Roma

May 2025 – Sep 2025

➤ Delivered classroom courses to primary and lower-secondary teachers on digital skills and the DigCompEdu framework.

➤ Designed lessons, exercises and materials on Google Workspace, Canva, effective search and critical LLM use.

➤ Ran classes with mixed digital skill levels, with hands-on exercises and a final assessment.

Inventory Assistant, C2C S.r.l. / GIGroup for Tecnomat

Sep 2025

➤ Counted and reconciled store inventory, on an on-call contract.

Volunteer Scout Leader, CNGEI, Pisa section

Aug 2021 – Sep 2025

➤ Organised weekly activities for ~30 children (ages 8–14): mountain hikes, overnight trips, summer camps.

➤ Led groups of 3 to 20 people and made fast decisions in critical situations, over four years of service.

Handler, DHL

Jan 2024 – Jun 2024

➤ Handled and sorted goods in a logistics hub, on shifts.

Seasonal Grape Harvester, Vit'manu, Champagne (France)

Sep 2023

➤ Harvested grapes by hand in an international team, at an intense pace.

CONTACT

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📧 @ldelitala

LINKS

🐙 github.com/ldelitala

🌐 [linkedin.com/in/lorenzo-delitala-43a676297](https://www.linkedin.com/in/lorenzo-delitala-43a676297)

SKILLS

Programming

C, Java, JavaScript, R, Nextflow

Also used

Python, Bash, C++, LaTeX

Data & pipelines

scRNA-seq analysis (Seurat, COTAN), R package development, conda, CI on GitHub Actions

Infrastructure & tools

Linux, Git, Docker, llama.cpp, LiteLLM, LibreChat, LLM agents

CERTIFICATIONS

🌿 Basic First Aid + B.L.S.D. (Misericordia di Pisa, 2020)

LANGUAGES

Italian

Native

English

Fluent — one year in Houston, Texas (USA)

Pizza Counter & Cashier, Pizzeria Sciué Sciué, Pisa

Apr 2021 – Nov 2022

› Served customers, prepared orders and handled the till on evening shifts, during my first two years at university.

Volunteer Ambulance Crew, Misericordia di Pisa

Sep 2020 – Jun 2021

› Served on ambulance crews for one year, certified in Basic First Aid and B.L.S.D.