

Gianluca Di Paola

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EDUCATION

- Polytechnic University of Milan** 2025-Present
Master of Science Degree in Computer Engineering, ICT, Business and Innovation
- Polytechnic University of Milan** 2021-2024
Bachelor of Science Degree in Engineering Of Computing Systems
- Liceo Scientifico Benedetto Croce** 2016-2021
High School Diploma in scientific studies

COURSEWORK

Informatics: Software Engineering, Object-Oriented Programming, Algorithms (fundamental and for bioinformatics), Data Structures, Finite State Machines, Software Defined Networking, Databases and Design, Computer Architecture, Operating Systems, Human-Computer Interaction







Engineering: Calculus I & II, Linear Algebra, Geometry, Physics, Probability & Statistics, General Chemistry, Automation, Logic & Algebra, Information Systems, Business Economics & Organization, Electronics

SKILLS

Languages: C, Python, Java, SQL, HTML, CSS, JavaScript, L^AT_EX

Tools: Windows, Linux, Google Workspace, Microsoft Office Suite, VSCode, IntelliJ Idea, GCC, GDB, Valgrind, Cachegrind, Git/GitHub, Unix Shell, VS Code, IntelliJ IDEA, Figma

PROJECTS

-  **Codex Naturalis** | *Java, MVC, Design Patterns, TCP, RMI, GUI, TUI, JavaFX, Maven, IntelliJ IDEA* 2023
- Academic team project, graded 30/30 cum Laude
 - Developed digital version of a physical game, through distributed programming
-  **Data Highway** | *C, GCC, BDB, Valgrind, Cachegrind, Unix Shell, Big-O notation, VS Code* 2022
- Academic solo project, graded 30/30
 - Developed C program respectful of the given time and memory complexity limits
-  **FPGA Module** | *VHDL, Vivado Design Suite, Git/Github, VS Code* 2022
- Academic team project, graded 28/30
 - Developed and designed fully functional VHDL hardware module, for its seamless integration with a RAM
-  **AI Web Navigator** | *Python, AI, GPT, Newelle, VS Code, Git/Github* 2024
- Team project, published as Newelle extension
 - Developed an AI agent based on the GPT model capable of reliably assisting the user through websites
-  **VentureLabs Flâneur** | *Figma, UCD, UX, HTML, CSS, Git/Github, PowerPoint, Excel* 2024
- Academic team project, graded 29/30
 - Developed prototype of a service, tailored for the target user, following User Centered Design paradigm
-  **gianlucadipaola.com** | *React, NextJS, Tailwind CSS, Shadcn/UI, Lucide-React, Framer-Motion* 2024
- Solo project, open source on [github](https://github.com)
 - Developed portfolio, designed to minimise maintenance, with a focus on responsive design, performance and accessibility

EXPERIENCE

- Student Tech Clas: AI Agents** | *2nd placed finalist team* 2024
Developed an AI agent based on the GPT model, capable of answering questions about the Polimi's website; it retrieves data from polimi.it and uses it to deliver reliable information, along with the url the piece of information was found on.
- TOP: Tutoring Online Program** | *Tutor* 2023
I provided specialized tutoring to a student with difficulties, earning recognition through an awarded open-badge for the acquired skills and knowledge.
- Water and Data Analysis with Bioindicators** | *Volunteer* 2021
I led team project on water analysis using bioindicators, proficiently organizing and manipulating data in Excel while collaborating effectively. Our work provided Sicily Region with up-to-date data on the state of Oreto river.

CERTIFICATIONS

- C1 CEFR Cambridge** 2023
Advanced Cambridge Certificate in English