Gianluca Di Paola

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Education

Polytechnic University of Milan 2021-2024
BSc Computer Engineering
Liceo Scientifico Benedetto Croce High School 2016-2021

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, LaTeX
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, pubished 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

Experience

Student Tech Clas: AI Agents | *2^{nd} 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

B2 CEFR Cambridge 2019
Upper Intermediate Cambridge Certificate in English

B1 CEFR Cambridge 2019
Intermediate Cambridge Certificate in English