

Andrea Grandieri

Computer Engineering Student · Backend & Infrastructure Developer

Milan, Italy

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Profile

Computer Engineering student at Politecnico di Milano with hands-on experience in backend development, self-hosted infrastructure, databases, Docker-based deployments, and internal web tools. Interested in building practical software systems, developing new projects from idea to implementation, and using technology to create meaningful innovation. Particularly motivated by startup environments, applied engineering, and space-related technologies.

Education

Politecnico di Milano B.Sc. in Computer Engineering	Milan, Italy 2021 - Present
IIS Jean Monnet Technical Diploma in Computer Science and Telecommunications — 98/100	Mariano Comense, Italy 2021

Experience

Brianza Tecnica S.r.l. IT and web infrastructure management for an industrial technical supplies company. <ul style="list-style-type: none">Developed internal web tools for business process automationManaged hosting, databases, website, email and e-commerce systemsSupported warehouse digitalization and company data managementProvided IT support across departments	Cantù, Italy 2023 - 2026
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Projects

Unified Health Data Middleware Provider-independent health-data platform integrating Garmin Connect and Apple Health through FastAPI, PostgreSQL and Docker-based infrastructure.	NECSTLab - DEIB - Politecnico di Milano 2026
VHDL Final Project Designed a VHDL hardware component for FPGA synthesis, RAM interfacing and algebraic filtering, including FSM-based control logic, Vivado synthesis, timing analysis and testbenches.	Digital Logic Design - Politecnico di Milano 2025
Codex Naturalis Java multiplayer implementation of the Codex Naturalis board game with client-server architecture, CLI/GUI clients, Socket/RMI networking, MVC design and advanced game features.	Software Engineering Project - Politecnico di Milano 2024
Algorithms and Data Structures Final Project C project focused on algorithmic efficiency and memory optimization, achieving 30L with execution time and memory usage within strict verifier limits.	Politecnico di Milano 2024
BitEvent Proposal of an event management app with a focus on accessibility, usability and responsive design.	Human Computer Interaction Project - Politecnico di Milano 2024 - 2026
giusp.com Server-side web services platform focused on free browser-accessible utilities. <i>More projects and technical experiments are available at grandieri.dev.</i>	Personal project 2024 - 2026

Skills & Interests

Programming	C, C++, Java, Python, JavaScript, PHP, SQL
Backend & Databases	FastAPI, Django, MySQL, PostgreSQL, REST APIs
Systems & Infrastructure	Linux, Docker, Portainer, Nginx, Proxmox, Self-hosting
Web & Dev Tools	HTML/CSS, Git, GitHub, Gitea, Raspberry Pi
Embedded & Digital Design	VHDL, Arduino, Assembly, Basic Swift/SwiftUI
Languages	Italian native, English C1 (TOEIC)
Hobbies & Interests	Space missions and exploration, long walks and running, swimming, videogames