

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.

Cantù, Italy

2023 - 2026

- Developed internal web tools for business process automation
- Managed hosting, databases, website, email and e-commerce systems
- Supported warehouse digitalization and company data management
- Provided IT support across departments

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.

Personal project

2024 - 2026

More projects and technical experiments are available at grandieri.dev.

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