

Giovanni Zanotti

Junior Software Developer & Open Source Enthusiast

📍 Bergamo Area, Italy 🌐 Gizano 🌐 giovanni-zanotti.is-a.dev

SUMMARY

Final-year Computer Science student with a strong focus on Python backend development, asynchronous architectures, and data processing. Proven ability to independently build full-stack solutions, IoT integrations, and network applications. Actively seeking open-source contributions and aspiring to pursue pure Computer Science at the university level.

PROJECTS & OPEN SOURCE DEVELOPMENT

- **Traveler-API (Python):** Engineered an asynchronous CLI orchestrator leveraging aiohttp to concurrently aggregate and format data from 9+ REST APIs. Built with a high-performance modular architecture and non-blocking I/O.
- **bE-More (IoT & Local AI):** Developed a full-stack IoT solution integrating Arduino, ThingsBoard, and a local Mistral:7b LLM to optimize workspace energy consumption.
- **Multithreaded Python Chat (Python):** Built a real-time terminal chat application using raw TCP Sockets and multithreading, featuring a privacy-first local network architecture and custom endpoints for server-side data retrieval.
- **QuakeGuard (Python):** Prototyped a real-time earthquake detection system utilizing standalone detectors to alert populations in unmonitored areas.

EDUCATION

Diploma in Computer Science and Telecommunications

ITIS State Industrial Technical Institute

09/2021 – 06/2026

Bergamo Area, Italy

Awards: Finalist in the National Mathematics Competition.

TECHNICAL SKILLS

- **Languages & Web:** Java | Python | C++ | PHP | HTML5 | CSS3 | JS
- **Networking & Security:** TCP/IP | DNS | HTTP/S | VLAN | Routing | VPN | TLS | Cryptography
- **Database & Tools:** SQL | Git | GitHub | UML | Agile SCRUM
- **Soft Skills:** Teamwork | Problem Solving

CERTIFICATES & COURSES

- **Kaggle Data Science Specialization:** Python, Data Analysis with Pandas, and Intermediate Machine Learning.
- **First Certificate in English (Cambridge):** Passed with A Level C1.
- **Cisco CCNA I:** Introduction to Networks, Network services, and configuration.
- **AWS Cloud Practitioner Essentials:** Cloud computing fundamentals on Amazon Web Services.
- **Hackersgen Courses (SORINT.lab):** Fullstack UI/UX Design, Data & AI, Prompt Engineering.

EXTRACURRICULAR & INTERNATIONAL EXPERIENCE

Exchange Student - AFS Intercultura

08/2024 – 12/2024

Diest, Belgium

- Developed cross-cultural awareness and resilience by living independently abroad. Completed an intensive Dutch language course.

Work-Based Learning - Carlos V Education Institute

05/2025 – 05/2025

Malaga, Spain

- Developed a comprehensive business plan for a ride-sharing app. Delivered a final pitch presentation in English to a panel.

LANGUAGES

Italian: Native Speaker **English:** C1 **Dutch:** A2 **French:** A2