Gabriele Groppo

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Profile

Computer Science student at University of Milan-Bicocca and Rotaract Volunteer. I gained hands-on experience in **Platform and Software Engineering** during my curricular internship at Sigemi.

I developed **KubePattern**, a tool to detect architectural smells in **Kubernetes** clusters using a 'Pattern-as-Code' approach. Focused on Distributed Systems, Cloud Native reliability, Linux and Open Source.

Internships

Junior Platform Engineer, Sigemi (Curricular Internship), Milano
Sept 2025 — Dec 2025

- Designed and Implemented the **Internal Developer Platform (IDP)** leveraging **Krateo Platform Ops** on **Google Kubernetes Engine (GKE)**.
- **Integrated DevSecOps pipelines** using **Google Cloud Build**, incorporating tools like **Trivy** for vulnerability scanning and policy enforcement.
- **Developed KubePattern**, a custom open source Java-based microservice for static and dynamic analysis of Kubernetes clusters. The tool identifies architectural smells and policy violations using an extensible **Pattern-as-Code** approach.

Education

University of Milan Bicocca, Milano
Bachelor degree in Computer Science, Sept 2022 — Mar 2026

Relevant Coursework: Distributed Systems, Software Engineering, Mobile Device Programming, Algorithms & Data Structures. **Key Academic Projects:**
- Built **FastestLap** (Android App) for the *Mobile Device Programming* exam, implementing **Clean Architecture** and MVVM patterns.
- Developed **DoIT** (Web Platform) for the *Software Engineering* exam, managing a full-stack microservices architecture (Java/Next.js) within an Agile team environment.

IIS Alessandrini Vittuone, Vittuone
ITIS Informatica, Jan 2017 — Jan 2022

Grade 100/100.

Technical Skills

Languages	Java, Python
Platform & DevOps	Kubernetes, Docker, Helm
Framework	Android SDK, Spring Boot

Extra-curricular activities

Volunteer & Secretary, Rotaract, Abbiategrasso
Jul 2023 — Present

Coordinated community projects and managed stakeholder communications, refining leadership skills.

Website management, Mendino SRL, Magenta
Jan 2024 — Present

Python scripting to automate high-volume media workflows, ensuring efficient bulk renaming and resizing of graphical content to web platforms.

Additional Information

Links: Portfolio, GitHub
Hobbies: Skiing, Linux
Languages: Italian, English