

Filippo Spinella

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EDUCATION

University of Genoa Masters of Science in Computer Science	2025 - 2027
University of Genoa Bachelors of Science in Computer Science	2022 - 2025
CyberChallenge National project for CyberSecurity training	2023 - 2023

EXPERIENCE

Wikicasa.it Back-end developer, Part-Time	2023 - Present Genoa (Hybrid), Italy
<ul style="list-style-type: none">Improved the speed of reading agency data from MySQL to Elasticsearch by -83%Implemented a new microservice for managing geospatial polygons, going from ~160ms to ~13msMigrated queries from MongoDB to ElasticsearchI created the first cluster with Kubernetes in companies on bare-metal servers. Managing all CI/CD with Bitbucket pipeline and ArgoCDCreated a microservice in Go and gRPC for converting images into different formats and sizes, handling over 25TB of data and 270 million images. Optimized storage on GCS Bucket, with a 40% cost reduction.I identified and resolved significant inefficiencies in the main application cache, which significantly slowed down the startup process. By implementing a cache serialization system, I reduced application startup time by 45 seconds, improving overall performance	
Ikinova Full Stack developer, Part-Time	2022 - 2023 Acqui Terme (Remote), Italy
<ul style="list-style-type: none">Restructured backend from php to typescript and clustered with pm2Built a CI/CD environment from scratch with mochajs and GitHub actionsCreated a daemon that auto-synchronises patient data from an API of the Piemonte regionCollaborates for the realization of some parts of the front-end with Ionic and Angular2	

PROJECTS

University ChatBot Google x IANUA	2024
<ul style="list-style-type: none">In a team of 4, I created a chatbot in Next.js and Python to support university students, using Gemini as the LLM for retrieval-augmented generation (RAG) from the university site.used for building: nextjs, python, github, vercel, gemini, django, langchain, postgresql, docker, gcp	
Management Orders PLC company	2023
<ul style="list-style-type: none">Developed and managed as project manager and back-end developer, a small order management application for a PLC companyused for building: github, mongodb, mongoose, express, docker, react, postman, jest, mdbootstrap	

ACHIEVEMENTS

Participant - Samsung IC	The Samsung Innovation Campus is a specialization course in the IOT and innovation field.	2023
Student - IANUA	IANUA offers a special study plan to the most brilliant students at the University of Genoa (top 10th percentile).	2022
Mentee - LeadTheFuture	Among the few Italian students selected to be mentees for LeadTheFuture, a leading mentorship non-profit organization for students in STEM, with acceptance rate below 20%.	2022
Finalist - Kangourou	Kangourou is a nationwide math and programming competition for the best students in Italy	2022