

# Filippo Spinella

🌐 Spinny03 | 🌐 filippo-spinella | ✉️ fili.spin2003@gmail.com | ☎️ +39 351 980 5291

## EDUCATION

<b>University of Genoa</b> Masters of Science in Computer Science	2025 - 2027
<b>University of Genoa</b> Bachelors of Science in Computer Science	2022 - 2025
<b>ITIS Italo Calvino</b> High School Diploma in Computer Science	2017 - 2022
<b>CyberChallenge</b> National project for CyberSecurity training	2023 - 2023

## EXPERIENCE

<b>Wikicasa.it</b> Back-end developer, Part-Time	2023 - Present Genoa (Hybrid), Italy
<ul style="list-style-type: none"><li>Improved the speed of reading agency data from MySQL to Elasticsearch by -83%</li><li>Implemented a new microservice for managing geospatial polygons, going from ~160ms to ~13ms</li><li>Migrated queries from MongoDB to Elasticsearch</li><li>I created the first cluster with Kubernetes in companies on bare-metal servers. Managing all CI/CD with Bitbucket pipeline and ArgoCD</li><li>Created 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.</li><li>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</li></ul>	
<b>Ikinova</b> Full Stack developer, Part-Time	2022 - 2023 Acqui Terme (Remote), Italy
<ul style="list-style-type: none"><li>Restructured backend from php to typescript and clustered with pm2</li><li>Built a CI/CD environment from scratch with mocha.js and GitHub actions</li><li>Created a daemon that auto-synchronises patient data from an API of the Piemonte region</li><li>Collaborates for the realization of some parts of the front-end with Ionic and Angular2</li></ul>	

## PROJECTS

<b>University ChatBot</b> Google x IANUA	2024 - 2024
<ul style="list-style-type: none"><li>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.</li><li>used for building: next.js, python, github, vercel, gemini, django</li></ul>	
<b>Management Orders</b> PLC company	2023 - 2023
<ul style="list-style-type: none"><li>Developed and managed as project manager and back-end developer, a small order management application for a PLC company</li><li>used for building: github, mongodb, mongoose, express, docker, react, postman, jest, mdbootstrap</li></ul>	

## ACHIEVEMENTS

<b>Participant - Samsung IC</b>	The Samsung Innovation Campus is a specialization course in the IOT and innovation field.	2023
<b>Student - IANUA</b>	IANUA offers a special study plan to the most brilliant students at the University of Genoa (top 10th percentile).	2022
<b>Mentee - LeadTheFuture</b>	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
<b>Finalist - Kangourou</b>	Kangourou is a nationwide math and programming competition for the best students in Italy	2022