Federico Gianno

Senior Software Engineer

📞 +39 349 6087065 ✉ giannofederico@gmail.com 🔗 gianno-federico ⌽ J4NN0 🏠 j4nn0.github.io

Experience

Netlight — Sep 2021 – Now
Senior IT Consultant — *Berlin, Germany*
- Designed and launched a VPP to monitor, optimize, and trade hardware energy resources from 10k homes, enabling customers to generate revenue by exporting/importing energy from/to the grid.
- Developed and implemented a new OMS tailored for wholesale e-commerce operations in 10+ countries worldwide, successfully tracking and managing order information, inventory, and fulfillment.
- Built a new in-house solution for the rider experience in the q-commerce industry, contributing to early-stage problem-solving and architecture design, optimizing processes across 200+ hubs in 4 EU countries.

Elinvar — Sep 2020 – Jul 2021
Software Engineer — *Berlin, Germany*
- Implemented key components of the internal alerting system for client and portfolio management, enabling operational scaling and more effective processes and monitoring.

Amadeus — Sep 2019 – Aug 2020
Software Engineer — *Nice, France*
- Implemented data flows and REST services, efficiently monitoring more than 1M daily flight searches, bookings, and other transactions with data volumes of up to 20 TB.
- Built transaction trees to map the purchase flow from start to final ticket issuance, impacting over 180k airlines by facilitating the analysis of the shopping and availability flows.

NetGroup at PoliTO — Nov 2018 – Apr 2019
Student Researcher — *Turin, Italy*
- State-of-the-art research in the NFV and SDN network architectures of a standard data format and implementation of a RESTful web service to store and retrieve the NFV/SDN information.

Personal Projects

ESP32 Tracking System | *ESP32, C, IoT, MQTT, MySQL*
- Distributed system that sniffs Probe Request packets sent by smartphones searching for Wi-Fi and sends them to a server that generates device positions.

Wordlist Generator | *Combinatorics, Pentest, CLI, C*
- Generate customized wordlist for penetration testing practice e.g., brute force attack, dictionary attack, etc.

LLM RAG | *LlamaIndex, RAG, Python*
- LLMs prompt augmentation with RAG by integrating external custom data allowing chat with such documents.

Education

Politecnico di Torino — 2018 – 2020
Master's Degree - Software Engineering (102 / 110) — *Turin, Italy*

Skills

Hard Skills: Go, Java, Python, C++, C#, CI/CD, REST APIs, Docker, Kubernetes, Cloud (GCP, AWS, Azure), IaC (Terraform), SQL (PostgreSQL), NoSQL (Cosmos DB), Kafka, Redis, MQTT
Soft Skills: Microservices architecture, Software design, Event-driven system, Problem-solving, Adaptability and flexibility, Agile methodologies, Mentoring, Collaborative decision-making, Cross-functional teamwork
Languages: Italian (*Native*), English (*Full professional proficiency*), French (*Elementary proficiency*)

Achievements

Hackathon: First place in *"Hello B0T!"* developing a Telegram BOT designed to facilitate students' learning, competing against 100+ participants — First place in *"Like@Home"* for creating a home assistant for Cloud Speech-to-Text service
Swimming: Five-time Italian championship finalist — Participated twice in international competitions