

Federico Gianni

Senior Software Engineer

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Experience

Netlight

Sep 2021 – Now

IT Consultant

Berlin, Germany

- Developed a VPP to monitor, optimize, and trade hardware energy resources such as batteries, wall boxes, and heat pumps by offering the capacity to export and import energy from the grid to create revenue for customers.
- Developed and implemented a new OMS, tailored for wholesale e-commerce operations in 10+ countries worldwide, to track and manage order information, inventory, and fulfillment.
- Built a new in-house solution for the rider experience across 200+ hubs in 4 EU countries in the quick commerce industry, developing cloud services for authentication, authorization, digital tipping, and user management across various systems.

Elinvar

Sep 2020 – Jul 2021

Software Engineer

Berlin, Germany

- Implemented core parts of the internal alerting system to enable operational scaling and more effective processes and monitoring.

Amadeus

Sep 2019 – Aug 2020

Software Engineer

Nice, France

- Implemented data flows and REST services to monitor and facilitate internal access to flight searches, bookings, and other transactions, handling daily data volumes of up to 20 Terabytes.
- Built transaction trees by reconstructing message sequences received at different times, mapping the purchase flow from start to final ticket issuance facilitating the analysis of the shopping and availability flows.

NetGroup at Politecnico di Torino

Nov 2018 – Apr 2019

Student Research

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, Python, 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++, C#, CI/CD, RESTful APIs, Docker, Kubernetes, GCP, AWS, Azure, Terraform, SQL, NoSQL, IoT, MQTT

Soft Skills: Microservices architecture, Software design, Event-driven system, Problem-solving, Adaptability and flexibility, Agile methodologies

Languages: Italian (*Native*), English (*Full professional proficiency*), French (*Elementary proficiency*)

Achievements

Hackathon: First place in "Hello BOT!" developing a Telegram BOT designed to facilitate students' learning – First place in "Like@Home" developing a home assistant for Cloud Speech-to-Text service.

Swimming: Five-time Italian championship finalist – Participated twice in international competitions.