

Ivan Cafiero

Date of birth: 22/03/2001

Nationality: Italian

CONTACT

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europass

WORK EXPERIENCE

Kelyon s.r.l Naples, Italy

Software application tester

14/06/2018 – 02/09/2018

Using Selenium Python library, I've tested some SMDs developed by Kelyon s.r.l.
I've learned how to create a unit test and also how to integrate the results with Testlink Open Source Test Management platform.
I've worked with other two people who helped me through the test case execution

Self-employed Naples, Italy

Independent Software Developer

01/06/2016 – Current

Designing, building and maintaining web applications, integrations and custom software across the full development lifecycle.

Working primarily with TypeScript, JavaScript, Python, React, Next.js, Node.js, REST APIs, databases, Docker and self-hosted infrastructure. Recent work also covers embedded systems, MQTT integrations, iOS development and Linux operations.

NOI - Next Open Innovation Naples, Italy

Coding Instructor

01/10/2025 – 30/06/2026

Delivered practical programming and computational-thinking activities for primary and middle-school students. Adapted lessons to different ages and levels, helping students break down problems, reason about solutions, and turn ideas into simple programs and interactive activities.

EDUCATION AND TRAINING

09/09/2014 – 12/06/2019 Sorrento, Italy

Diploma di Liceo Scientifico Liceo Scientifico Statale Gaetano Salvemini

Address Via Sant'Antonino, 3, 80067, Sorrento, Italy | **Website** https://www.salvemini.edu.it/

01/09/2024 – CURRENT Naples, Italy

Bachelor's degree in Computer Science Università degli Studi di Napoli Parthenope

Studies in algorithms and data structures, object-oriented programming, operating systems, computer architecture, databases, software engineering and web technologies.

Level in EQF EQF level 6

01/09/2019 – 31/07/2024 Naples, Italy

Bachelor's degree in Information and Communication Technologies Università degli Studi di Napoli Federico II

Degree path in Information and Communication Technologies, with a foundation in software development, information systems, databases and computer networks.

Level in EQF EQF level 6

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian | Russian

Other language(s):

English

Listening B2	**Spoken production** B2
Reading B2	**Spoken interaction** B2
Writing B2	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

SOFTWARE AND SYSTEMS

TypeScript | JavaScript | Python | Swift | SwiftUI | React | Next.js | Node.js | Docker | Linux | Firebase | Git | MongoDB | C | QEMU | Selenium | TestLink | RISC-V assembly

PROJECTS

PRG32 – Educational embedded platform

Open-source educational runtime for teaching RISC-V assembly and C through native game cartridges on ESP32-C6 hardware and QEMU. Contributed to the platform runtime, cartridge workflow, hardware/software boundary and the supporting browser-based tooling.

Link https://prg32.uniparthenope.it

Spotted Train – iOS transit application

Independent academic iOS application for route search, departures, service updates and saved journeys. Contributed to the initial product direction, SwiftUI client architecture, route and station search, cached and offline-oriented behaviour, MapKit and CoreLocation flows, local persistence, connectivity handling, and the collaborative Firebase Cloud Messaging integration for notifications and user preferences.

Link https://apps.apple.com/it/app/spotted-train/id6736531247

Emporion – Commerce platform

Independent TypeScript commerce platform with separate shop and admin surfaces, a gateway-led service architecture, MongoDB and Redis persistence, Docker-based local infrastructure and a plugin-oriented runtime. Created as a substantial systems and application-architecture project.

Event-driven MQTT bridge

Event-driven integration service that translates device state and commands into MQTT entities for home automation. Implemented asynchronous Python services, retained state and discovery metadata, Linux and Docker deployment, and clear boundaries between device input, bridge logic and the MQTT surface. Vendor-specific details are intentionally omitted.

Linux Server Playbook

Reproducible Ubuntu LTS server baseline for self-hosted services. Covers SSH hardening, firewall rules, Docker setup, Fail2Ban, DNS-related configuration, validation checks and recovery-oriented operational steps.