Salvatore Pirillo

Full Stack Software Engineer

Fullstack software engineer working with React, Next.js, Node.js and Python on IoT, trading, computer vision and B2B systems. I start from the problem and measure where time is lost before touching code. I learn new domains quickly, take projects alone through to deployment and explain without jargon to non-technical people. I use Claude Code daily and verify every change with tests and review.



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Professional experience

Tecnel MC
2023 / present

Fullstack Software Engineer remote, with trips to Monaco

Jupiter Platform. Backtesting engine rewritten in Python (NumPy, Numba, Parquet): **from 4.5 hours to under 10 minutes**.

EMS. B2B management platform in React: pages **from 30 to under 3 seconds**, from 50+ API calls to under 5.

The One. Full refactoring of a home automation system: **from HTTP polling to WebSocket**, Redis and MongoDB, 3 parsers, data integrity checks, multi-hub management.

NautiSafe. React Native app for maritime safety: risk from weather and NMEA 2000 sensors over Bluetooth, offline maps.

Preventivando. React Native app for on-site quotes, **from 2-3 days to 10 minutes**: solar calculation, 2D PDF, offline mode, GPS clock-in.

Others. License plate recognition with YOLO11, **under 100ms** at the edge (thesis topic); QR access control for a bank; heat mapping for a jewelry store.

Freelance
2024 / present

Fullstack Software Engineer remote

EMS Commerce. B2B e-commerce in Next.js 16 for a construction and energy group: Better Auth, role-based pricing, catalog **under 100ms**.

Alibi. Local appliance to blur faces in video (RetinaFace, YOLOX, FastAPI). In development.

Luxury residence. Network with VLANs for apartments, cameras, video intercoms and guests; PTZ cameras on an Ajax NVR.

Marcograssoart
2016 / 2026

Digital Marketing & Content Manager hybrid

Artist's social media: **from zero to 106K Instagram followers**; digital side of a Milan exhibition.

Education and languages

Mercatorum
2022 / 2025

Bachelor's degree in Computer Engineering (L-8) online

Thesis: Design of an Automatic License Plate Recognition System with Convolutional Neural Networks for Access Control.

Politecnico di Torino
2020 / 2022

Transferred to Mercatorum.

Languages

Italian (native), English (fluent), French (A2)

Technical skills

Frontend	React, Next.js, TypeScript, React Native, Expo, Tailwind CSS, Angular, GSAP
Backend	Node.js (Express, Fastify, NestJS), Python (FastAPI, Django), REST, GraphQL, tRPC, WebSocket, RabbitMQ
Database	MongoDB, PostgreSQL, Redis, Supabase
DevOps	Docker, CI/CD with GitHub Actions, Vercel, VPS Linux, Sentry, Grafana
IoT	Raspberry Pi, ESP32, MQTT, Bluetooth LE, NMEA 2000, serial
AI and data	YOLO, OpenCV, TensorFlow, ONNX, NumPy, Numba, LLM APIs and RAG
QA and security	Vitest, Playwright, k6, Maestro, OWASP, Argon2id
AI workflow	Claude Code, Codex CLI, MCP

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