Maurizio Manca

Senior Software Engineer & Tech Lead

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Swiss & Italian citizenships

PROFILE

- 20+ years of software engineering experience across Swiss banking, public safety, R&D, and enterprise platforms.
- Proven track record leading small engineering teams, mentoring developers, and shipping end-to-end full-stack web products (Next.js, TypeScript, Node.js, Kubernetes) alongside mission-critical banking platforms (Appway, Finnova), with earlier background in .NET and Java.
- Product-minded builder leveraging AI-assisted engineering and autonomous agent workflows to accelerate delivery, automate internal operations, and build production tools.

CORE COMPETENCIES

Product & Web Stack	Next.js, TypeScript, Node.js, React, shadcn/ui, Zod, REST APIs, KrakenD API Gateway
Cloud, DevOps & AI Engineering	Vercel, Kubernetes, Docker, CI/CD, Coolify, Hetzner, Linux, AI-Assisted Development & Agent Workflows
Enterprise & Banking Platforms	Appway (10/11+), Finnova, Liferay, Camunda; earlier career background in C#/.NET (2004–2018) and Java/J2EE (2007–2011)
Engineering Leadership	Technical Leadership, Team Mentoring, Legacy Rearchitecting & BDD/TDD, 3rd-Level Operations & Incident Management

PROFESSIONAL EXPERIENCE

Since 03.2018

Senior Software Engineer & Application Manager

Swisscom, Crissier (VD)

- **Tech Lead, KYC Web Application:** Led a team of 2 developers and 1 intern (mentored from onboarding to permanent hire on the team) through the 2024 delivery of the KYC web application for Banque du Léman (BDL), which has handled 15,000 KYC processes. Built with Next.js, Node.js microservices, KrakenD, Kubernetes, and automated CI/CD.
- **API & Partner Integration (2025 – Present):** Designed, built, and maintain the partner lead-ingestion API for Banque du Léman (BDL), connecting 5 external partners to the core Lead backend and processing hundreds of leads per month; onboard each new partner.
- **Internal Productivity & Operations Tools:**
  - Internal Chrome extension automating ticket replies, predefined resolutions, and billable-hours logging in SAP, reducing per-ticket handling time from ~15 minutes to under 30 seconds. Used by the entire 8-person team on dozens of tickets per day.
  - Modular team operations dashboard unifying contacts, knowledge base, on-call schedules, team leave, server health status, and GitLab project vulnerability tracking into one interface.
- **Banking Platforms & Migration (2018 – Present):** Application Manager and 3rd-level support for Appway Internet Banking and Client Onboarding applications for Romandie cantonal banks (BCGE, BCVS, BCF, BCJ); currently leading BCF's migration to the latest Appway version.

Stack: Next.js, Node.js, KrakenD, Kubernetes, CI/CD, Appway 10/11+, Finnova, Liferay, Linux, Camunda

01.2017 – 03.2018

Senior Software Engineer

GoConcept, Nyon (VD) — Consultant at Meggitt, Fribourg

- Rearchitected a 2.2M-line industrial application to enable automated unit and integration testing.

Stack: C#, WinForms, NUnit, BDD, SpecFlow/Gherkin, Git

10.2011 – 01.2017

Senior Software Engineer

SPIE-ICS, Lonay (VD)

- Built client/server & desktop software used daily by 2,000+ police officers across Canton Vaud.
- Built web applications and managed 24/7 server health monitoring for the Police Cantonale Vaudoise ControlRoom.

Stack: C#, WPF, WCF, MVVM, SQL Server, ASP.NET MVC, HTML5, CSS, JavaScript, Bootstrap

09.2007 – 2011

Software Engineer
Cisco Systems, Rolle (VD)

- Developed J2EE framework and client apps for location-based services.
- Conducted R&D in smart cities, building automation, and social networks with distributed teams in India and California.
- Served as editor of the internal Technology Radar for the board of directors.

08.2005 – 2007

Software Developer
LCT Infotelematics, Turin, Italy

- Developed an embedded C++ GPS navigation system deployed on 10,000+ consumer devices and improved routing algorithms.
- Built an encrypted client/server fleet management & licensing module.

09.2004 – 2005

Researcher
ISTI-CNR, Pisa, Italy

- Architected a home/building automation interoperability framework (C#, WebServices, KNX, UPnP); published in IEEE Transactions on Consumer Electronics (Feb 2006).

SELECTED PERSONAL PRODUCTS & AI LAB

Deployed mainly on Vercel, with selected apps self-hosted on Hetzner or a private server via Coolify · Next.js, TypeScript, shadcn/ui, Zod · Showcase: easyshowcase.vercel.app/en

- **EasyGraphs** (easygraphs.vercel.app) — Simplified graphing web application commissioned by a university professor in Mexico City and actively used by students in coursework.
- **The Oracle** — Zero-shot numerical forecasting tool using the local Timestral model (no training needed), featuring backtesting and statistical forecast quality indicators.
- **EasyBudget & EasyPortfolio** — Family expense/wealth tracking with automated multi-bank/card import, net-worth history tracking, and Switzerland/Italy FIRE retirement modeling.
- **EasyLibrary** — Personal multi-format digital library (6 GB across PDF, EPUB, DOCX, TXT) with integrated reader, full-text search, similarity search, topic catalogs, and metadata editor.
- **Additional Easy Suite apps** — EasyShowCase (portfolio showcase), EasyMockups (automated mockup generation via batch API), EasyLegacy (structured family account continuity vault), EasyMail (email triage), EasyStopLoss (150-day SMA stock alerts), EasyTracking (statistical habit/stress correlation).

EDUCATION

09.2005 – 07.2007

MSc in Computer Science — Major in Software Engineering
Università degli Studi di Torino, Italy · **110/110 cum laude**

Thesis: "DomoNet: adaptive UIs for home automation"

09.1997 – 08.2004

MSc in Computer Science — Major in Computer Networks
Università degli Studi di Torino, Italy · **110/110 cum laude**

Thesis: "DomoNet: a framework and a prototype for interoperability of domotic middlewares based on XML and Web Services"

08.2000 – 07.2001

Erasmus Exchange (12 months)
Uppsala Universitet, Sweden

TRAINING & PUBLICATION

Publication	IEEE Transactions on Consumer Electronics (Feb 2006)
Courses	Appway Developer & Admin · Finnova Cross-App · Camunda for Java Developers

LANGUAGES & INTERESTS

Languages	**Italian** (Native) · **French** (C2) · **English** (C2) · **Spanish** (A2)
Community	Founder of a non-profit cultural association in Geneva organizing theatre shows and conferences for the Italian community.
Interests	Piano, karting, tennis, snowboarding.