

Antonio Ancona

Full Stack Software Engineer

Zürich, Switzerland - Italian Citizen - Permit B EU/EFTA

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PROFESSIONAL SUMMARY

Software Engineer with **5+ years** of professional experience developing enterprise applications and digital government solutions in Switzerland. Experienced in Java, Spring Boot, Angular, and TypeScript, with hands-on expertise in system design, Kubernetes orchestration, containerization, and CI/CD automation.

EXPERIENCE

Software Engineer

PrivaSphere AG

April 2022 – Present

Zurich, Switzerland

- Designed and developed full-stack applications for **Swiss e-government** platforms, including projects for BFE, BAV, and OAK.
- Led the migration from **JSP to Angular**, establishing the frontend architecture, migrating core legacy interfaces, and redesigning the application's UI and CSS.
- Designed and implemented **payment processing APIs** integrating PostFinance with Switzerland's ETIAS platform to handle application fee transactions.
- Collaborated on decomposing a legacy **Java monolith** into independently deployable services, refactoring existing functionality and establishing **Kubernetes-based deployment infrastructure**.
- Replaced a VM-dependent development setup with a portable **Docker-based environment**, migrating bundled libraries to **Maven** and enabling IDE-independent development.
- Implemented **GitLab CI/CD pipelines** automating the build, containerization, and deployment of Java services to Kubernetes, reducing deployment time by approximately **50%**.
- Collaborated on introducing automated **unit, integration, and end-to-end testing** into a previously untested codebase, establishing test coverage using **JUnit, Mockito, and Cypress**.

Software Engineer

Data Inform S.r.l.

February 2021 - March 2022

Turin, Italy

- Designed and developed a full-stack **automotive CMS** for **Iveco** using **Angular, TypeScript, and Java** and **Spring Boot**, modernizing a legacy terminal-based system into a web application.
- Developed and maintained **Oracle Database** integrations managing over **5,000 vehicle configurations**, including optional equipment and vehicle specifications.
- Collaborated within an **Agile team** of 3–5 developers to migrate **97 functional modules** to the new web platform, personally implementing a substantial portion of the functionality.
- Refactored and tested **7 legacy functionalities**, resolving defects and reducing reported usability issues by over **50%**.

TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript, SQL, HTML/CSS

Backend: Spring Boot, Struts, Maven

Frontend: Angular, JSP

Databases: Oracle, MariaDB, IndexedDB

DevOps & Infrastructure: Docker, Kubernetes, GitLab CI/CD, GitHub Actions, Git

Testing: JUnit, Mockito, Cypress, Vitest

SELECTED PROJECTS

MacroMark Nutrition Tracker ↗ | *Angular, TypeScript, PWA, IndexedDB, Dexie*

2026

- Built a responsive, offline-capable **Progressive Web App (PWA)** for food-library management, daily gram-based nutrition logging, and live macro and calorie calculations.
- Designed a local-first persistence architecture using **IndexedDB**, **Dexie**, and **Zod** validation, including immutable daily-history snapshots, JSON backup/import, and resilient synchronization workflows.
- Implemented automated quality and deployment workflows with **Vitest**, Docker Dev Containers, GitHub Actions, and GitHub Pages.

Development Lead - women++ | *Node.js, Angular, MariaDB, MediaWiki*

October 2022 – January 2023

- Led a team of software developers delivering a project for **Wikimedia Switzerland**, mentoring contributors seeking practical software development experience.
- Modernized the frontend of **WikiMini** using Angular, replacing legacy interface components with a modern web architecture.
- Contributed to the backend architecture using **Node.js**, MediaWiki, and MariaDB.

EDUCATION

International Telematic University UNINETTUNO *Bachelor's Degree in Software Engineering*

Sep 2026 – Present
Rome, Italy (Online)

LANGUAGES

Italian (**Native**) - English (**C1**) - German (**B1**)