

Alessio Vercelli

Freelance Senior Software Engineer · Internal Auditor

Fifteen years of experience in application software development for companies that lead their sectors worldwide.

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SUMMARY

Fifteen years of **backend** development on distributed transactional systems: airline ticket issuing, French social security, shared-mobility billing. **Independent professional since early 2026**: backend engagements for clients, Java and Spring microservices, database performance, invoicing and payments, internal audits of the ISMS for **ISO/IEC 27001** compliance and for obtaining certifications. MSc in Software Engineering with distinction and the Faculty of Computing prize for the best dissertation.

LANGUAGES

Italian native · **French** fluent · Voltaire 736/1000, Affaires level · 14 years in France
English fluent · MSc written in English, 2 years in London · IELTS 7.0 (2009) · **Spanish** basic

EXPERIENCE

Freelance Senior Software Engineer · Internal Auditor

Jan 2026 – present

TideLogic · by Alessio Vercelli **CURRENT**

- Backend engagements for clients on **business-critical transactional systems**: microservices and REST APIs in **Java 17** and **Spring Boot**, over MariaDB, MongoDB, Redis and RabbitMQ.
- **Billing and invoicing engine**: computation, credit notes, rounding and VAT, reconciliation with payment service providers (Adyen, Stripe). Over **1.5 million invoices** a year.
- **Performance and reliability**: JPA/Hibernate query profiling, transaction boundary review, Java and Spring migrations in reversible steps with regression tests.
- **AI in the software lifecycle**: dedicated **MCP** servers wiring assistants to code, internal knowledge bases and trackers (GitLab, Jira, Confluence), and assisted code review on merge requests.

Senior Software Engineer

2022 – Dec 2025

Vulog · Nice (FR)

- Car-sharing platform for operators in **30 countries**: over **70 million trips** recorded worldwide.
- **Spring Boot** microservices over MariaDB, MongoDB, Redis and RabbitMQ, talking over REST and asynchronous queues, with idempotency on messages and **distributed locks** on scheduled jobs.
- Query and transaction boundary optimisation; credit notes and refunds under electronic invoicing constraints.
- Working with several automotive companies such as **Porsche, Volkswagen, Toyota**.

Software Engineer, then Tech Lead

2016 – 2022

Atos · Sophia Antipolis (FR)

- Application integration for the **French self-employed social security scheme** (SSI, formerly RSI, the equivalent of National Insurance for the self-employed), on data from URSSAF and interfacing with the CNAM: **Java 8, Spring, Apache Camel, JBoss**.
- Roles held: Software Engineer, then Senior Software Engineer, then **Tech Lead**.
- **Overnight batch processing** and asynchronous flows at national scale.

Software Engineer

2011 – 2016

Amadeus · Sophia Antipolis (FR)

- Transaction processing for airline ticket issuing and the related payments, in **C++** and **Python** at high volume, with automated recovery after failure.
- Work on the group's **payment platform**, serving airlines and travel operators in **170 currencies** (today ~\$160bn processed per year).
- Working with several airlines, among them **Air France, KLM, LATAM, Emirates**, and with payment networks including **Visa, Mastercard, American Express**.

SKILLS

LANGUAGES	Java 8–17 · Python · C++ · C# · SQL · PHP · shell Unix
FRAMEWORKS	Spring Boot · Spring Data · Hibernate / JPA · Vert.x · Apache Camel
ARCHITECTURE	distributed systems · microservices · asynchronous messaging · idempotency · distributed locks · cross-system reconciliation
DATA	MariaDB · MySQL · PostgreSQL · Oracle · MongoDB · Redis
INTEGRATION	REST · SOAP · XML / XSD / XSLT · JSON · RabbitMQ · OAuth2 / JWT · Adyen · Stripe
PRACTICE	TDD · Scrum · code review · UML
TOOLING	Maven · Git · GitLab CI · Jenkins · SonarQube · Docker · Linux · IntelliJ IDEA · Jira
APPLIED AI	Claude Code · Cursor · MCP servers and skills · internal knowledge bases · prompt engineering · agents and loops · software lifecycle automation · assisted code review · critical review of AI output

EDUCATION

2015	Oracle Java 8 OCA Oracle Academy
2012	MSc Software Engineering London Metropolitan University, United Kingdom (with distinction)
2009	BSc Telecommunications Engineering Politecnico di Torino, Italy

Personal data provided in accordance with the EU General Data Protection Regulation (GDPR).
References available on request.