# ALESSANDRO COSENTINO

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## PROFESSIONAL HEADLINE

Senior Backend Engineer | Java & Spring Boot | Oracle Certified in GenAI | Cloud-Native & Microservices Specialist

## PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years of experience designing robust, scalable backend and full-stack systems for high-compliance industries such as banking, public administration, and telecom.

Expert in Java (from 8 to 17 in production; exploring 21 features in lab/side projects), Spring Boot, microservices architecture, and cloud-native platforms including Oracle Cloud Infrastructure and Kubernetes. Proven track record delivering resilient APIs, automating regulatory workflows (AML, tax, approvals), and refactoring legacy systems to accelerate delivery pipelines and simplify maintenance.

Oracle Certified in Generative AI (2025), with hands-on experience applying prompt engineering and LLM orchestration in enterprise settings.

Skilled in Agile delivery and DevOps practices, including CI/CD, monitoring, and containerization. Adept at transforming business needs into backend solutions successfully deployed in regulated enterprise environments.

## TECHNICAL SKILLS

- Programming: Java, Python, Flowable (BPMN)
- Frameworks: Spring Boot/Framework, REST APIs, Kafka, SOA, Angular
- Cloud & DevOps: OCI, Kubernetes, Docker, Jenkins, GitLab CI/CD, Grafana
- Security: OAuth2, JWT, Keycloak, RBAC
- Databases: Oracle 12c, IBM DB2, MySQL, JPA/Hibernate
- Generative AI: Prompt engineering, LLM orchestration, OCI GenAI APIs
- Tools: IntelliJ, VS Code, Git, Jira, Confluence, Swagger

**CERTIFICATIONS**

- Oracle Generative AI Professional [1Z0-1127-25] – 2025

- Oracle Data Platform Foundations [1Z0-1195-25] – 2025

- OCI AI Foundations Associate [1Z0-1122-25] – 2025

- OCI Foundations Associate [1Z0-1085-25] – 2025

- Spring Framework 5.0 Certified – 2019

- GCP Developer Program – 2019

- Java EE Web Services Developer Expert [1Z0-897] – 2016

- Java SE 7 Programmer Expert [1Z0-804] – 2015

- Java SE 7 Programmer Associate [1Z0-803] – 2015

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**PROFESSIONAL EXPERIENCE**

**Senior Software Engineer (Consultant) – Julius Baer Bank, Zurich**
Aug 2021 – Dec 2024

- Developed resilient REST APIs with structured error handling using Spring Boot, enhancing stability and reducing critical failure rates.
- Automated approval workflows by translating business requirements into BPMN models, streamlining processing and accelerating approvals.
- Set up mock environments for recovery testing, accelerating Mean Time to Recovery and strengthening incident response.
- Mentored junior developers, helping the team improve delivery consistency and reduce review cycles.

**Senior Software Engineer (Consultant) – Corner Bank, Lugano**
Mar 2021 – Aug 2021

- Developed an internal analytics dashboard with Spring Boot and Oracle BI, enabling 100+ employees to access real-time reporting.
- Implemented RBAC-compliant authentication via Spring Security, mitigating access risks.
- Built CI/CD pipelines using Jenkins & Docker, standardizing deployment workflows across dev, test, and production.

**Senior Software Engineer (Consultant) – CSI, Bellinzona**
Mar 2020 – Feb 2021

- Migrated legacy systems to modular Java-based microservices with Spring Boot and Apache Camel, improving system flexibility and maintainability.
- Enhanced system resilience using Apache Kafka for asynchronous communication between microservices.

- Collaborated with business analysts to automate repetitive workflows, reducing manual effort and improving process efficiency.

### Software Engineer – Engineering Group, Rome
Jan 2014 – Feb 2020

- Delivered over 20 REST APIs and microservices with Spring Boot, enhancing system scalability.
- Built automated test suites (unit, integration), increasing code coverage to 80%.
- Built responsive Angular UI components integrated with Spring Boot services, enhancing overall user experience and interface consistency.
- Optimized database performance through indexing and query tuning, accelerating data access across Oracle, DB2, and MySQL systems.

### Software Engineer – Telecom Italia, Rome
Jan 2011 – Jan 2014

- Designed and delivered telecom backend applications using Java, Struts, and Hibernate, with a focus on scalability, data consistency, and maintainability.
- Led Agile ceremonies and improved sprint planning, helping the team deliver more consistently and reduce rework across sprints.
- Conducted business requirement analysis for feature development in line with operational needs.

## KEY PROJECTS

- Led the development of an AML reporting platform at Julius Baer, ensuring full FINMA compliance while significantly reducing manual preparation effort. Used daily by the internal AML team for regulatory reporting to supervisory authorities.
- Refactored case management APIs to improve code clarity and speed up audit traceability across systems.
- Designed and implemented a tax notification platform for legal entities by developing custom calculation algorithms and integrating with legacy systems. Automated tax notifications for legal entities using custom calculation algorithms and iText-based reporting, reducing manual compliance overhead.
- Developed a real-time analytics dashboard with Spring Boot and React, improving executive decision-making and reducing dependency on offline BI processes.

## EDUCATION

Master in Business Management Systems – Uninform, Rome – 2011

Bachelor in Aerospace Engineering – University of Rome, La Sapienza – 2009

## LANGUAGES

Italian – Native | English – Professional (C1)