






# Simone Maliziola

## Software Engineer

Last update: November 10, 2025

Up-to-date version of CV is available at

 <https://smaliziola.github.io/cv>

Residence	 <a href="#">Frosinone, Italy</a>
LinkedIn	 <a href="#">simone-maliziola</a>
GitHub	 <a href="#">SimOne42</a>
LeetCode	 <a href="#">smaliziola</a>
Email	 <a href="mailto:s.maliziola@proton.me">s.maliziola@proton.me</a>

## About Me

Graduated cum laude with a bachelor's degree in Computer Science and a master's degree in Computer Engineering. Experienced software engineer primarily focused on back-end web development using Java and Kotlin, with deep expertise in frameworks such as Spring and Quarkus.

Passionate about all aspects of IT, with a particular interest in software quality.

Always eager to learn, acquire new skills and continuously grow professionally.

Proficient in a wide range of technologies, with strong problem-solving abilities.

Excellent communication, interpersonal, and organisational skills.

Extensive experience working in multicultural teams with Agile methodologies, performing QA activities, developing and maintaining microservices and cloud-native web applications.

I have worked in consulting firms, product-based companies, and research & development (R&D) environments.

My ideal workplace is comfortable, inspiring, transparent, innovative, and that values employee happiness.

My goal is to ensure and improve product quality by deepening my technical expertise, staying updated with the latest advancements, and sharing ideas, opinions, and knowledge.

I thrive in environments surrounded by competent, empathetic, and collaborative people.

## Skills

- Back-End Web Development
- Test-Driven Development
- Software Design Patterns
- Software Architectural Design
- Object-Oriented Programming
- Cloud-Native Applications
- Code Refactoring
- Agile Methodologies
- Functional Programming
- Microservices
- Software Development Life Cycle
- Problem Solving

## Professional Experience

### Hootsuite

Software Developer

Feb 2025 – Present

Rome, Latium, Italy • Remote

Software Developer contributing to Talkwalker's consumer intelligence platform, working in an Agile Kanban team to integrate, enrich, and process large-scale social media data streams. Focused on real-time data ingestion, analytics, and delivering actionable insights to support data-driven decision-making.

Key responsibilities:

- End-to-end development of social media platform integrations in a high-throughput microservices architecture, processing millions of posts daily.
- Design and implementation of ETL pipelines to normalize heterogeneous social media data into unified, searchable data models with strong validation and sanitization layers.
- Real-time stream processing, including error handling, retries, and deduplication strategies.
- API client development with rate limiting, pagination, circuit breakers, graceful degradation, and monitoring.
- Enhancement and maintenance of existing social data connectors, improving data quality, system reliability, and feature coverage.

- Observability and monitoring improvements using contextual logging, distributed tracing, custom metrics, dashboards, and real-time alerting.
- Test-first development with extensive unit, integration, and component test coverage.
- Refactoring and modernization of legacy components to reduce technical debt and improve architectural coherence.
- Active involvement in code reviews and continuous delivery pipelines.
- Creation and maintenance of internal documentation, tools, and scripts to support team productivity and onboarding.

Java Spring Boot Gradle JUnit Mockito JavaScript Node.js gRPC Protocol Buffers REST APIs Git Gitlab  
 Apache Cassandra Elastic Stack (ELK) Apache Kafka Jenkins Docker Kubernetes Sonarqube Grafana Graphite Jira  
 Confluence Slack

## Alpian

Software Engineer

Sep 2022 – Jan 2025

Rome, Latium, Italy • Remote

As a Software Engineer, I was responsible for participating in the entire systems lifecycle, from the initial technical analysis to production release. This included designing the architecture of new digital solutions, collaborating with Product Owners to align technical solutions with business needs, developing software from scratch, and maintaining or refactoring existing code to ensure consistently high-quality standards.

The teams were international, operating remotely across the globe, and followed Agile Scrum methodologies. Beyond my core responsibilities, I also led initiatives on features involving multiple teams, ensuring alignment and convergence toward common goals.

Some key contributions:

- Managed the onboarding process for new customers via mobile apps (Android/iOS).
- Developed and maintained a CRM system to help personal bankers manage customer accounts, communications, and support activities.
- Designed and implemented appointment reservation feature for both customers (via mobile app) and personal bankers (via CRM system).
- Integrated SMS and email notification system for customers and personal bankers.
- Created a distributed system that processes sensitive customer data on a scheduled basis.
- Proposed and implemented efficient solutions to reduce technical debt and improve code maintainability.
- Consistently met tight deadlines while ensuring high software quality and adherence to best practices.

Java Kotlin Go Python Spring Boot Quarkus Maven JUnit Mockito Testcontainers JMeter gRPC  
 Protocol Buffers REST APIs SOAP Liquibase Hibernate PostgreSQL MongoDB Apache Kafka Apache Spark Docker  
 Kubernetes Helm Charts OpenShift Argo CD Google Cloud Platform (GCP) Jenkins Artifactory Elastic Stack (ELK)  
 Splunk Keycloak Istio Git GitHub Bitbucket Backstage Sonar Sonarqube Grafana Prometheus Jira  
 Confluence Slack

## Konica Minolta – Digital Services R&D

Software Developer

Aug 2021 – Sep 2022

Rome, Latium, Italy • Hybrid

Software Developer in the Cognitive Service Program (CSP), contributing to international R&D projects within Agile Scrum teams. The primary objective was to link and process structured and unstructured data from diverse sources, delivering meaningful decision support for end users, reducing workplace complexity, improving efficiency, and promoting new digital workflows.

Key responsibilities:

- Developing new back-end software in a highly scalable microservices architecture.

- Maintaining existing software by implementing new features, fixing bugs, and ensuring compliance with company quality standards (code coverage, code smells, and vulnerability risks).
- Reducing technical debt and adding automated tests (unit, component, and integration).
- Performing manual release procedures and deploying components.
- Monitoring and maintaining development, QA, demo, and production environments.
- Updating documentation and automating manual procedures.
- Conducting code reviews for team members and managing technical tasks in the backlog.
- Participating in Sprint refinement and planning alongside the team.

Java Quarkus Spring Boot JUnit Mockito REST-assured Postman Newman JMeter Maven Go Python  
 JavaScript Electron Vue.js Node.js REST APIs RabbitMQ Liquibase Hibernate PostgreSQL GraphDB SPARQL  
 Docker Kubernetes Helm Charts Argo CD Ansible Elastic Stack (ELK) Microsoft Azure OpenStack Git GitHub  
 Bitbucket Jenkins Sonarqube Grafana Prometheus Jaeger Keycloak Jira Confluence Slack

## Altran

Software Development Engineer

Mar 2019 – Aug 2021

Rome, Latium, Italy • Hybrid

IT Consultant at Altran (now known as Capgemini Engineering) for Hotels.com (Expedia Group), working as a Software Development Engineer within a multicultural, international Agile team, where I also contributed to QA activities.

My primary responsibilities included:

- Developing new features and maintaining the Hotels.com back-end system built on a highly scalable microservices architecture.
- Defining test strategies and implementing automated tests (unit, component, integration, and acceptance).
- Managing and eliminating legacy code while reducing technical debt through dedicated tech health days.
- Monitoring deployments managed by the CI/CD pipeline.
- Participating in code review processes, team planning, and backlog management.

Java Kotlin Spring Boot JUnit TestNG Mockito EasyMock Cucumber Puppeteer Maven Python JavaScript  
 Node.js GraphQL REST APIs SOAP Apache Kafka Redis Apache Cassandra DynamoDB Git GitHub Bitbucket  
 Docker Kubernetes Amazon Web Services Confluence Jira Grafana Graphite Splunk Jenkins Bamboo Spinnaker  
 Artifactory Fortify Software Security Center Slack

## Alten

Software Developer

Feb 2017 – Mar 2019

Rome, Latium, Italy • On-site

IT Consultant for GVC Holdings (now known as Entain), working as a Software Developer.

I was responsible for the analysis, design, and development of an online bingo platform, used by leading gambling websites in Italy. The system was built on a REST-based microservices architecture, leveraging ActiveMQ for messaging, an API Gateway for external access, and Docker containers orchestrated with Kubernetes.

One of my key achievements was integrating with third-party regulatory APIs in the gambling industry while implementing fallback strategies.

Java Spring Boot Spring Web MVC JUnit Maven JavaScript AngularJS Angular REST APIs ActiveMQ  
 Apache Camel Apache Tomcat Hibernate Oracle Database MySQL Mercurial Git GitHub Docker Kubernetes  
 Jenkins GitLab Artifactory Sonarqube Fortify Software Security Center

## Education

# International Telematic University UniNettuno

Master's degree, Computer Engineering

2020 – 2023

**Grade:** 110/110 cum laude

**Curriculum:** Information management systems, Digital innovation, Computer Systems Architecture, Software design, Network services and security, Introduction to Big Data, Computer and Information Technology Law, System Programming, Methods and cloud tools for Big Data, Big Data Analytics and Visualization, Machine Learning, Big Data Platforms.

**Thesis:** Automated resolution of text-based CAPTCHAs using Deep Learning techniques

Java Python MapReduce Hadoop Apache Spark Machine learning Deep Learning Keras Problem Solving  
Software Design Patterns Software Architectural Design

## University of Rome Tor Vergata

Bachelor's degree, Computer Science

2013 – 2017

**Grade:** 110/110 cum laude

**Curriculum:** Mathematical Analysis, Computer Systems Architecture, Physics, Geometry and Algebra, Logic and Logical Networks, Discrete Mathematics, Computer Programming, Algorithms and Data Structures, Databases and Knowledge, Probability and statistics, Theoretical computer science, Programming languages and methodologies, Operations research, Operating systems and networks, Numerical calculus, Artificial intelligence, Web programming, Android Programming, Software Engineering.

**Thesis:** Efficient methods for the approximate computation of the neighborhood function of large graphs

Java C Python HTML CSS PHP Javascript Prolog SPARQL UML Maven Android Development Git GitHub  
Database Management System SQL MySQL NoSQL MongoDB Problem Solving Algorithms Data Structures  
Software Development Life Cycle Software Design Patterns



## Courses and Certifications

- [Java Design Patterns Course](#)
- [Local LLMs via Ollama & LM Studio – The Practical Guide](#)
- [Apache Kafka Series – Confluent Schema Registry & REST Proxy](#)
- [Apache Kafka Series – Kafka Streams for Data Processing](#)
- [Apache Kafka Series – Kafka Connect Hands-on Learning](#)
- [Apache Kafka Series – Learn Apache Kafka v3](#)
- [MongoDB – The Complete Developer's Guide](#)
- [Quarkus Backend development with Java and GraalVM](#)
- [Java Certificate](#)
- [Problem Solving Certificate](#)
- [Kotlin for Java Developers](#)
- [Apache Spark for Java Developers](#)
- [Angular – The Complete Guide](#)
- [Machine Learning](#)
- [Functional Programming Principles in Scala](#)



## Languages

🇮🇹 Italian  
Native proficiency

 English

Professional working proficiency