





Simone Maliziola

Software Engineer

Last update: March 23, 2025

Up-to-date version of CV is available at
<https://smaliziola.github.io/cv>

Residence	 Frosinone, Italy
LinkedIn	 simone-maliziola
GitHub	 SimOne42
LeetCode	 smaliziola

About Me

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

Passionate about all aspects of IT, particularly software quality.

Eager to acquire new skills and continuously enhance professional abilities.

Proficient in various technologies and skilled in problem-solving.

Possess excellent communication, social, and organizational 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, and innovative, 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

Development of new features and maintenance of the backend system of Talkwalker, acquired by Hootsuite.

- Java
- JavaScript
- Gradle
- JUnit
- gRPC
- Protocol Buffers
- NoSQL
- Cassandra
- Apache Kafka
- Jenkins
- Elastic Stack (ELK)
- Git
- Gitlab
- 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 in collaboration with software

architects, 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).
- Designed, developed, and maintained a CRM system to help personal bankers manage customer accounts, communications, and support activities.
- Implemented appointment reservation feature for both customers (via the mobile app) and personal bankers (via the CRM system).
- Integrated SMS and email notification system for customers and personal bankers.
- Developed and maintained 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.



Konica Minolta – Digital Services R&D

Software Developer

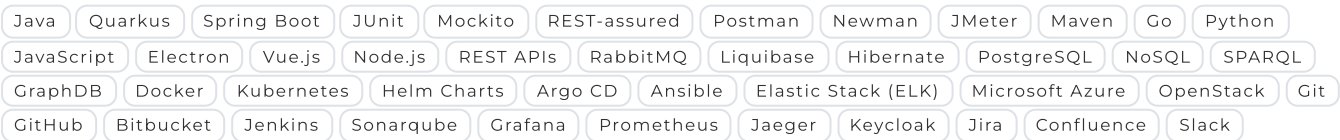
Aug 2021 – Sep 2022

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 backend 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.



Altran

Software Engineer

Mar 2019 – Aug 2021

Rome, Latium, Italy • Hybrid

IT Consultant at Altran (now known as Capgemini Engineering) for Hotels.com (Expedia Group).

Software Development Engineer supporting QA activities within a multicultural and international Agile team. My primary responsibilities included:

- Developing new features and maintaining the Hotels.com backend 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

NoSQL

Redis

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).

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

One of my primary responsibilities was integrating with the third-party APIs of AAMS (Amministrazione Autonoma dei Monopoli di Stato), a government agency responsible for regulating gambling, while also defining 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

Università Telematica Internazionale 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

- [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