

## Professional Experience

<b>lastminute.com</b> <i>Senior Product Engineer</i>	<b>July 2022 – current job</b> <i>(Remote) Caserta, Italy</i>
Work on the transportation booking platform (B2B, B2C) for lastminute digital services by developing the external providers integration and booking provisioning flows	
<b>BMC Software</b> <i>Staff Product Developer</i>	<b>August 2019 – July 2022</b> <i>Milan, Italy</i>
Work on Capacity Optimization platform (B2B) that collects catalog data and time series related to the IT resources using ETLs and provides analyzes, monitoring dashboards and recommendations for infrastructure optimization	
<b>MotorK</b> <i>Product Developer</i>	<b>March 2018 – August 2019</b> <i>Milan, Italy</i>
Work on Car Stock Management platform (B2C) to manage the vehicles inventory, the publication on adv portals and the creation promotional campaigns with data updated in real time	
<b>Capgemini Spa</b> <i>IT Consultant</i>	<b>March 2015 – March 2018</b> <i>Rome, Italy</i>
Work on VPN management platform (B2C) to design, configure and provision VPNs for Vodafone corporate customers	

## Professional Skills

<b>Languages &amp; Frameworks:</b> Java 11/17/24(SpringBoot, Spring Cloud, Virtual Threads), Kotlin (Coroutines, Arrow-KT), Groovy(Grails)
<b>Data Stores:</b> MySql, PostgreSQL, Redis
<b>Methodologies &amp; Techniques:</b> Scrum, Kamban, DDD, TDD
<b>Technologies:</b> Functional programming, Hexagonal architecture, Concurrent programming, Structured concurrency, Axon Framework, Event Driven Architecture, Event Sourcing, CQRS, Maven, Gradle, Git, Kubernetes, Grafana, RabbitMQ, Kafka, Jenkins, ArgoCD Docker, Axon Framework, Linux, AWS (EKS, MSK, IAM, S3), Spring Reactive
<b>Other:</b> Mentoring, advocate for clean code and architecture, continuous learning, Software Design Documentation

## Relevant Projects

<b>Supply as a Platform</b>   <i>Kotlin, Domain Driven Design, Axon for CQRS/ES, Microservice Architecture</i>	<b>2025</b>
Led the transformation of a tightly coupled monolithic system, integrated with services from other business domains, into a modular, service-oriented platform. Drove multiple Event Storming sessions and applied Domain-Driven Design (DDD) to define clear bounded contexts and decouple responsibilities. Defined the architectural roadmap, balancing a long-term vision with iterative delivery. Implemented Event Sourcing and CQRS using Axon Framework to model product workflows through domain events, commands, and aggregates, enabling complete auditability and temporal queries for supply chain operations. Designed and implemented transitional strategies to gradually introduce the new architecture alongside the legacy system, ensuring business continuity and minimizing risk.	
<b>Refund Workflow</b>   <i>Kotlin, Axon Framework, Kafka</i>	<b>2024</b>
Led the design and implementation of a microservice responsible for processing refunds of unused flight tickets. Utilized Kotlin with a functional programming paradigm to ensure maintainability and scalability. Employed Axon Framework to implement event sourcing for auditability and resilience. Integrated Kafka to orchestrate communication across distributed services, enabling a robust, asynchronous workflow. Actively contributed to architectural decisions and cross-team collaboration.	
<b>Credential Proxy</b>   <i>Kotlin, Spring Cloud Gateway, Spring Reactive, VAUTH, Kafka</i>	<b>2024</b>
Design and development of a proxy that allows third-party applications to call provider services on behalf of a lastminute account. Authentication and authorization are ensured via OAuth2 protocol with client credential flow and calls are proxied using reactive technologies	
<b>Monolith to Event driven Architecture</b>   <i>Kotlin, Java 17, SpringBoot, Kafka, kafka streams</i>	<b>2023</b>
Design and migration of an existing monolithic architecture to an event driven using kafka as both event store and messaging backbone to decouple modules and enable asynchronous workflows. Defined service boundaries using DDD principles and facilitated cross-team Event Storming sessions to align on domain models	
<b>Single-tenant to multi-tenant architecture</b>   <i>Java, SpringBoot, Postgres, Kafka, Redis, Liquibase</i>	<b>2020</b>
Design and development of tenant activation, update and deactivation flows. Implementation of the asynchronous actions required for each flow in different microservices, ensuring data consistency and managing concurrency and resilience concerns	

**Monolith to microservice architecture | Kubernetes, SpringBoot, Kafka, Redis, Elasticsearch****2020**

Design and development of various phases of the migration from a monolithic application installed on-prem based on legacy technologies to a microservices architecture delivered on a kubernetes stack. After the migration, the legacy on-prem application was split into about twenty microservices based on modern technologies taking full advantage of the Horizontal Scalability of Event-Driven Microservices

**Data Extraction Wizard API | OpenAPI, SpringBoot****2019**

Design and development of the backend and of the API based on the Backend For Frontend pattern for the implementation of a wizard that allows users to extract metrics from the NoSql datasource and materialize into a human readable data structure

**Multi-publisher of automotive ads | SpringBoot, RabbitMQ, Docker****2019**

Design and development of vehicle catalog services responsible for collecting data from the eurotax source and asynchronous publication of advertisements on about 60 different portals. The catalog update and publication processes involve around two hundred thousand vehicles a day

**Loan calculator API | SpringBoot, RabbitMQ, Docker, Soap WS****2018**

Design and development of the loan calculator API for the car dealer website based on the integration with Findomestic Web Services using SOAP protocol

---

**Languages****Italian:** Native**English:** Professional working proficiency

---

**Education****University of Salerno****September 2011 – December 2014***Bachelor's Degree in Computer Science - Final grades: 108/110**Salerno, Italy*

---

**Certifications****Spring Certified Professional**[View Certificate](#)**October 2020**

---

**Contributions to Debezium****DBZ-7249 Add Notification ID in log channel****DBZ-7164 Support offset commit for the signal topic documentation****DBZ-7164 Support offset commit for the signal topic****DBZ-6878 add table specific notification in initial snapshot****DBZ-6843 change skipped change event log to debug****DBZ-6742 use JSON format for JMX Notitication userData****DBZ-6689 make kafka signal consumer group configurable**