

# Andrea Donadello

Jesolo - Venice (Italy)

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## EDUCATION

### Master's Degree in Big Data (Computer Engineering)

*International Telematic UniNettuno University*

Jun. 2024 - Present

*Rome, Italy*

### Bachelor's Degree in Computer Engineering

*International Telematic UniNettuno University*

Jan. 2020 - Mar. 2024

*Rome, Italy*

### Scientific High School Diploma

*High School G. Bertoni*

Sep. 2014 - Jun. 2019

*Udine, Italy*

## EXPERIENCE

### Software Backend Engineer

*Mediacy Srl*

June 2022 - Present

*Venice, Italy*

- Managed, developed, and deployed web applications using Microservices Architecture and asynchronous routines.
- Extensive experience in Java for backend development.
- Implemented and integrated backend services with SpringBoot, focusing on configuration and optimization for efficiency and scalability.
- Utilized PostgreSQL and Oracle databases for data storage, designing schemas and queries to ensure optimal performance.
- Deployed applications using Docker containers to enhance portability and scalability.
- Configured and optimized Tomcat and WildFly as web servers for hosting Java-based applications.

## PROJECTS

### Backend Projects | *Java, SpringBoot, PostgreSQL, Oracle, Tomcat, Wildfly*

June 2022 – Present

- Utilized SpringBoot to develop efficient Java-based backend applications.
- Built RESTful APIs and microservices with SpringBoot for smooth inter-component communication.
- Implemented backend logic and algorithms in Java to fulfill project requirements.
- Optimized and configured SpringBoot applications for enhanced performance and scalability.
- Designed RESTful APIs for seamless frontend-backend integration, following RESTful principles.
- Monitored and optimized backend performance for fast response times and efficient resource use.
- Collaborated with frontend developers, UX/UI designers, and project managers to achieve project goals.

### Machine Learning Pipeline | *Scala, Akka, Kafka, Spark, Hadoop*

November 2023

- Developed a scalable data processing pipeline in Scala for efficient data flow and orchestration.
- Used Apache Kafka for real-time, fault-tolerant data streaming, configuring topics for seamless integration.
- Integrated Apache Spark for large-scale data processing, designing Spark jobs for efficient analysis.
- Applied the Akka toolkit to implement concurrent and distributed processing using the actor model.
- Enhanced data quality by implementing transformation and enrichment stages in the pipeline.
- Leveraged Spark transformations and Akka actors for complex data manipulations.

## TECHNICAL SKILLS

**Languages:** Italian (Native language), English (Professional)

**Programming Languages:** Java (Primary language), C, SQL (PostgreSQL, Oracle)

**Technologies:** Docker, Git, Tomcat, Wildfly

**Framework:** SpringBoot