



# Andrea Acampora

Software Engineer | MSc Computer Engineering

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 LinkedIn GitHub LeetCode

## Summary

Software Engineer with an MSc in Computer Science & Engineering from *University of Bologna*. Passionate about backend development, domain-driven design, microservices and event-driven architectures.  
Proficient in *TypeScript*, *Java*, *Scala*, *NodeJS*, and *Kotlin*, with hands-on experience designing scalable software systems.

## Experience

### Mr. Apps

Software Engineer | Backend  
San Marino

June 2024 - Present

- Activity:** design and development of web services for mobile and web applications.
- Skills:** NodeJS | NestJS | TypeScript | Docker | PostgreSQL | AWS | DevOps

### University of Bologna

MSc Internship | Software Engineering  
Cesena, Italy

September 2023 - March 2024

- Activity:**
  - Research activities on *Digital Twins* and *Event-driven architectures*.
  - Contribution to the *White Label Digital Twins* framework through the development of an Event-driven microservices architecture.
- Skills:** Java | Event-driven Architecture | Digital Twins | Microservices | Apache Kafka

### CyberLoop

BSc Internship | CyberSecurity  
Cesena, Italy

January 2021 - May 2021

- Activity:** development of Python scripts for web scraping and analysis of online data leaks
- Skills:** Web Scraping | Network Security | OSINT | Python

## Education

### University of Bologna

Computer Engineering  
110L / 110  
Master of Science

September 2021 - March 2024

- Skills:** Domain-Driven Design | DevOps | Functional and Reactive Programming | Kotlin | Scala | Java | NodeJS | Vue3
- Thesis:** *"Design and development of an Event-Driven Microservice Architecture for Digital Twins"*

### University of Bologna

Computer Engineering  
101 / 110  
Bachelor Degree

September 2018 - December 2021

- Skills:** OOP | Java | Python | C | C++ | IoT | Data Structures | Networking
- Thesis:** *"Re-design of the Alchemist simulator data export module"*

## Principles

Domain-Driven Design	Clean Architecture	Functional Programming
Reactive Programming	DevOps	TDD
Quality Assurance	Event Sourcing	SOLID

## Programming Languages

TypeScript	Java	Kotlin	Scala
Python	C	C++	

## Framework & Libraries

NodeJS	NestJS	ExpressJS	Vue3	KTor
ReactiveX	VertX	Effect-TS	GraphQL	

## Technologies

Docker	Gradle	Apache Kafka	RabbitMQ	Apache Pulsar
Github Actions	BitBucket Pipelines	Semantic Release	AWS	Azure Digital Twins

## Databases

PostgreSQL	MySQL	MongoDB	Redis
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## Projects

### NestJS-DDD-DevOps

GitHub Repository

- Description:** ready-to-use project following *DDD*, *Clean Architecture* and *Functional Programming* best practices, combined with some *DevOps* techniques such as *CI*, *CD* and *QA*.
- Technologies:** NodeJS, NestJS, Domain-Driven Design, DevOps

### Smart Operating Block

University Project

- Description:** a prototype of a Smart Operating Block composed by an *IoT layer*, a *Digital Twins* layer and a *Microservice Architecture*.
- Technologies:** Digital Twins, Microservices, Kotlin, IoT, Web of Things, Apache Kafka

### VirSim

University Project

February 2022 - September 2022

- Description:** Scala-based simulation tool for the spread of a Virus within a population
- Technologies:** Scala3, ScalaJS, Sbt, Github Actions

## Languages

Italian	English	Spanish
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## Skills

Problem Solving	Team Work	Flexibility	Critical Thinking	Organization
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