# Andrea Acampora

Software Engineer | MSc Computer Engineering

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in LinkedIn | GitHub | LeetCode

## Summary

Software Engineer with an MSc in Computer 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 |

## 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 |
|---|---|---|
| Native | Conversational | Basic |
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## Skills

| Problem Solving | Team Work | Flexibility | Critical Thinking | Organization |
|---|---|---|---|---|
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