Andrea Acampora

Software Engineer | MSc Computer Engineering

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LinkedIn GitHub LeetCode StackOverflow

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
Native

English
Conversational

Spanish
Basic

Skills

Problem Solving **Team Work** **Flexibility** **Critical Thinking** **Organization**