Andrea Acampora

Software Engineer | MSc Computer Engineering

Rimini, Italy   +393348458754   andrea.acampora.dev@gmail.com   20/03/1999

LinkedIn   GitHub

Summary

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

Experience

Speaker from iHeartMedia

Software Engineer | AdTech & Delivery
United States - Remote
October 2025 - Present

- **Activity**:
  Contributing to the development and evolution of the podcast delivery and AdTech platform, including globally distributed services that handle dynamic ad-injection and large-scale content delivery.
  Working with event-driven serverless architectures, Node.js microservices, and SQL/NoSQL data stores to build scalable and resilient systems.
  Involved in monitoring, automation, and continuous improvement to ensure high availability and operational reliability across the platform.
- **Skills**: AWS | Serverless | AWS Lambda | Node.js

Mr. Apps

Software Engineer | Backend
San Marino
June 2024 - Present

- **Activity**:
  Architect and develop backend systems and APIs powering mobile and web applications for a range of clients.
  Responsible for requirements analysis, architectural design, implementation, automated testing and production deployment.
  Primarily work with *Node.js* (*NestJS, ExpressJS*), *SQL/NoSQL* databases (*PostgreSQL, MySQL, MongoDB*), and cloud infrastructure (*AWS, OVH*).
  Advocate for clean architecture, modular services, and automated pipelines to ensure reliable, scalable delivery.
- **Skills**: NodeJS | NestJS | ExpressJS | TypeScript | Docker | PostgreSQL | AWS | OVH | DevOps | Continuous Integration

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
Langchain	ReactiveX	VertX	Effect-TS	GraphQL

Technologies

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

Projects

NestJS-DDD-DevOps
GitHub repository
March 2025

- **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

https://github.com/andrea-acampora/nestjs-ddd-devops

Smart Operating Block
University project
January 2023 - June 2023

- **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

https://smartoperatingblock.github.io/

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

https://github.com/VirusSpreadSimulator/PPS-22-virsim

Languages

Italian	English	Spanish
Native	Conversational	Basic

Awards

AI Agents Course
HuggingFace
March 2025

https://raw.githubusercontent.com/andrea-acampora/andrea-acampora/main/certificate.pdf

Skills

Problem Solving	Team Work	Flexibility	Critical Thinking	Organization