Andrea Acampora

Rimini, Italy | +39 334 8458754 | andrea.acampora@protonmail.com | LinkedIn | GitHub

Software Engineer specialized in Backend Development and Software Architectures | MSc Computer Science & Engineering @ University of Bologna | Java - Kotlin - TypeScript - Scala

Skills

Positions
Back End, System Engineer, DevOps Engineer

Experience level
Junior, Mid, Entry

Core skills
Java, Typescript, Kotlin, Microservices, Software Architecture

Other skills
Scala, Node.js, Python, AWS, Docker

Work eligibility
EU

Preferences

Work type
Onsite, Remote, Hybrid

Work timezone
UTC-4:00 - UTC+4:00

Tech stack/Tooling
Microservices, Software Architecture, Node.js

Languages

Italian (fluent)

English (intermediate)

Spanish (beginner)

Experience

Software Engineer, Mr. Apps　06/2024 - Present (8 months)
San Marino

Design and **development** of backend software systems for mobile and web applications.

Tech Stack:

- Node.js (NestJS, ExpressJS)
- TypeScript
- PostreSQL - MySQL - MongoDB
- AWS

Curricular Internship, Cyberloop　01/2021 - 05/2021 (5 months)
Cesena, Province of Forlì-Cesena, Italy

Activities:

• Web Scraping
• Network Security
• OSINT
• Analysis of online data leaks

Education

Università di Bologna   2022 - 2024 (2 years)
Master's degree: Computer Science & Engineering, 110/110

Focus on Software Architectures, Domain-Driven Design and DevOps methodologies

- **Software Architectures:**
  - Expertise in designing and implementing various architectural patterns including microservices, event-driven and serverless architectures.
  - Proficient in evaluating architectural trade-offs and selecting appropriate technologies that align with business goals.
  - Experience in building and managing event-driven architectures using technologies like *Apache Kafka*, *RabbitMQ*, and *Apache Pulsar* to ensure loose coupling, high availability, and real-time data processing.
- **Domain-Driven Design (DDD):**
  - In-depth knowledge of *Strategic DDD* techniques, including defining bounded contexts, identifying core domains and creating clear context boundaries to ensure modularity and reduce complexity.
  - Proficient in applying *Tactical DDD* patterns such as Aggregates, Repositories, Entities, Value Objects, and Factories to implement rich domain models that encapsulate business logic and create cohesive, maintainable systems.
- **DevOps**:
  - Skilled in creating and managing CI/CD pipelines using tools like Github Actions, GitLab CI, and Bitbucket Pipelines to automate testing, deployment and monitoring of microservices-based and domain-driven systems.
  - Proficient in containerization tools such as Docker, enabling seamless development-to-production workflows, and ensuring high availability and scalability.

Università di Bologna   2018 - 2021 (3 years)
Bachelor's degree: Computer Science & Engineering, 101/110

- **Data Structure & Algorithms** (C, C++)
- **OOP** (Java)
- **Networking** (Python)
- **Data Science** (Python)

Projects

Smart Operating Block   05/2023 - 10/2023 (6 months)
github.com/smartoperatingblock

A prototype of a *Smart Operating Block* composed by an **IoT layer**, a **Digital Twins** layer and a **microservice** architecture.

Technologies:

- Kotlin - Java
- Apache Kafka
- MongoDB
- Azure Digital Twins
- C++ (Arduino, Raspberry PI)

Projects

AthletX

github.com/athletx-org

Web Application to manage and create fitness workouts.

Technologies:

- ExpressJS
- Vue3
- MongoDB
- Docker

VirSim

https://github.com/VirusSpreadSimulator

A *Functional* and *Cross Platform* Simulator written in *Scala 3*

Technologies:

- Scala 3
- Sbt
- Github Actions
- Docker

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