Giacomo Zanotti

Personal Information

Place and Date of Birth: Borgo Maggiore, San Marino | 25 Dicembre 1993

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Links

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Work experience

Akamas **Milano**

Backend Software Engineer *2025–currently working*

Description: Akamas enables continuous optimization for **k8s** clusters. It has two main solutions: a dedicated on-prem software for optimal AI fullstack application tuning, and a SaaS for cluster and application tuning recommendations. **Python** and **Java** are the primary adopted languages for offline (jobs and batch operations) and online (ReST and data persistence) activities.

Acquired skills: I have worked as *Backend* and *Devops* engineer by building the software from scratch, working at infrastructure and application level.

Cuebiq **Milano**

Backend Software Engineer *2022–2025*

Description: Cuebiq offers a PaaS solution for Big Data analysis concerning geospatial data and a SaaS solution for advertisement based on that data. The technology stack is mainly based on **microservices** developed in **Java/Kotlin**, empowered by **Spring Boot/Quarkus**. Integration of all the components is carried out mainly via **asynchronous messaging** using **Apache Kafka**. Deployment of components is achieved by means of a **GitOps** approach, using **Travis** as CI and **Argocd** as CD tools. Everything runs on a dedicated **Amazon Elastic Kubernetes Service** cluster.

Acquired skills: I have broadened up my experience about distributed systems, components design and the integration among them. Even if it was not my main role, I have also participated in DevOps tasks, by configuring **Helm** charts, metrics and alarms, using CI/CD techniques and adding **Go** to my skill set.

Kalpa **Milano**
Backend Software Engineer *2020–2022*

Description: The job is mainly focused on **IoT** and home automation. This kind of projects consists in developing a set of **API ReST** in **Java** with **Wildfly** as an application server, and implementing ad hoc **message exchange protocols** based on MQTT, in order to let the main application on the cloud to communicate to the devices in the field, and viceversa.

Acquired skills: I have had a deep dive on **Java EE**, focusing on handling asynchronous communication (bidirectional) between the cloud hosted server and devices, a connection that can break in any moments. The challenge was not only on the implementation of hard business requirements with tight deadlines, but also handling customers' requests and doubts about the software.

Skills

- **Programming Languages**: Python, Java, Kotlin, Go
- **Frameworks & Libraries**: Spring Boot, Quarkus, Java EE, Wildfly
- **DevOps & Cloud**: Kubernetes (k8s), Amazon Elastic Kubernetes Service (EKS), Docker, Helm, ArgoCD, Travis, GitOps
- **Databases & Messaging**: PostgreSQL, MySQL, Apache Kafka
- **Concepts & Methodologies**: Microservices, Asynchronous Messaging, ReST APIs, CI/CD, IoT

Education

University of Bologna **Cesena**
Master degree in Computer Science and Engineering *2017–2020*

University of Bologna **Bologna**
Bachelor degree in Automation Engineering *2013–2016*

Scuola Secondaria Superiore di San Marino **San Marino**
Scientific High School *2008-2012*

Abroad experiences

AlmaTong Project

Place: *Tongjy University* - Shanghai, Cina

Period: full academic year 2013 - 2014

Description: I was selected to get into the program among several students and spent the full year studying automation engineering in english classes