

Giacomo Zanotti

Personal Information

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Introduction - A bit about myself

I have a bunch of defects (who doesn't) but what I really like about my self are two things: I'm humble and I'm honest.

Does it matter in the job? I think it does: if someone is too proud to accept criticism or code reviews, well, he/she just stays at that level. Being humble also includes raising my hand and asking for help if I have impediments on carrying the task out.

Honesty is important: I am very direct, and I want people to give it to me straight. If there is something I do not like, or I consider unfair, I don't let it pass. Viceversa, I'd rather receive comments like "Your code sucks, because of A, B, C...." instead of the bitter-sweet pill.

Work experience

Spectus

Milano

Backend Software Engineer

2022–currently working

Description: Spectus offers a PaaS solution for Big Data analysis concerning geospatial 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

Backend Software Engineer

Milano

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 o business requirements with tight deadlines, but also handling customers' requests and doubts about the software.

Education

University of Bologna

Master degree in Computer Science and Engineering

Cesena

2017–2020

University of Bologna

Bachelor degree in Automation Engineering

Bologna

2013–2016

Scuola Secondaria Superiore di San Marino

Scientific High School

San Marino

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