Federico Gualdi
SOFTWARE ENGINEER

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Profile

Software Engineer @Kalpa (IoT and Cloud-Application Consulting Agency), with experience developing scalable and robust software solutions for leading companies in fuel station services, smart LED lights, and smart homes & buildings. They are committed to delivering high-quality results and solving complex problems with strong problem-solving skills and attention to detail.

Work Experience

Kalpa   *Milan, IT*
Software Engineer   *Jul 2021 - Current*

- Developed and implemented high-quality software solutions using agile methodologies and strong problem-solving skills for third-party clients.
- Microservices backend for IoT projects with thousands of connected devices.
- Web Application enabling seamless interaction with physical devices.
- Backoffice board to efficiently manage a home domotic system.
- **Tech Stack:** Java, Quarkus, AWS (EC2, RDS, S3), AMQP, MQTT, WebSocket, TypeScript, Angular, Git, GitHub Action

Fortech   *Rimini, IT*
Full-Stack Developer   *Mar 2019 - Jul 2021*

- Conceptualized and executed multiple projects aimed at optimizing company processes, resulting in significant time and resource savings.
- Wizard webapp to initialize brand-new systems that improved the initialization process by decreasing the execution time by more than 80% compared to when the configuration was manual.
- Platform that helps customers visually personalize items before they buy them them through a drag-and-drop system.
- **Tech Stack:** Java, Spring Boot, C#, .Net, PostgreSQL, MSSQL, TypeScript, Angular, Git

Side Projects

LMS Platform Integration
National Voluntary Association   *2022*

- Analysis and implementation of a microservice application to integrate an LMS portal with proprietary services.
- **Tech Stack:** Java, Quarkus, AWS (EC2, Lambda, Api-Gateway, ECR, SQS, Amplify), Svelte

Optical Wheelchair
Final Project for High School graduation   *2016 - 2017*

- PoC of electric wheelchair operated by facial expressions and movements.
- The aim is to increase the autonomy of tetraplegic people through the use of the face and facial expressions.
- Won national awards (e.g. 'MakeToCare', 'I giovani e le scienze') and participation in international fairs.
- Appeared on a major program on RAI 2 (one of the main channels of state-owned TV).
- Went to Silicon Valley to talk to startup incubators and startuppers thanks to one of the competitions won.

Education

Politecnico di Milano   *Milan, IT*
Computer Science and Engineering   *2019 - 2022*

- Algorithms, Data Structures, Database.
- Computer Architecture and Operating systems.

ITTS Belluzzi - Da Vinci   *Rimini, IT*
Automation and Robotics | High School Graduation   *2012 - 2017*

- Robotic and industrial automation.
- Microcontroller programming.