Federico Gualdi

SOFTWARE ENGINEER

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Profile

I am a Software Engineer at Kalpa, an IoT and Cloud-Application Consulting Agency. With a strong background in developing scalable and robust software solutions, I have successfully delivered high-quality results for leading companies in fuel station services, smart LED lights, and smart homes & buildings. My commitment to excellence and problem-solving abilities enable me to tackle complex challenges with meticulous attention to detail. Currently, I am actively seeking new opportunities at top companies to further expand my skills and make significant contributions to cutting-edge projects.

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.
- Designed and developed microservices backend for IoT projects with thousands of connected devices.
- Created web applications that enable seamless and near-instantaneous interaction with physical devices, ensuring responsive user experiences.
- Developed highly efficient back-office dashboards for smooth management of home domotic systems.
- Actively engaged in mentoring and providing guidance to younger team members, fostering their professional growth and success.
- **Tech Stack:** Java, Quarkus, MySQL, AWS (*EC2, RDS, S3, SQS, API Gw*), AMQP, MQTT, WebSocket, API REST, TypeScript, Angular, GitHub Actions

🚩 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.
- Developed a wizard-based web application to simplify the initializing of new devices, reducing the execution time by more than 80 percent compared to manual configuration.
- Created a platform that enables customers to visually personalize items through a drag-and-drop system before purchasing.
- **Tech Stack:** Java, Spring Boot, Hibernate, C#, .Net, PostgreSQL, MSSQL, TypeScript, Angular, Git

Side Projects

Vacation Planner
Optimize Explorations for Uncharted Destinations   *2023*

- Led the technical engineering design, architecture design, and database implementation.
- Developed an efficient backend architecture to optimize travel itineraries and activities for users exploring unfamiliar destinations.
- **Tech Stack:** NodeJS, Fastify, AWS (*EC2, Lambda*), Mercurius, GraphQL, Angular

LMS Platform Integration
National Voluntary Association   *2022*

- Spearheaded the design of a microservices application to integrate an LMS (Learning Management System) with proprietary services.
- Architected the overall system, defined the microservices architecture, established communication patterns, and designed the DB structure.
- **Tech Stack:** Java, Quarkus, AWS (*EC2, Lambda, API Gateway, ECR, SQS, Amplify*), Svelte

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

- Developed a proof-of-concept electric wheelchair operated by facial expressions and movements.
- Aimed to enhance the autonomy of tetraplegic individuals through facial recognition technology.
- Received national awards (e.g. 'MakeToCare', 'I giovani e le scienze') and participated in international fairs.
- Featured on RAI 2, one of the main channels of state-owned TV.
- Presented project in Silicon Valley, engaging with startup incubators and entrepreneurs as a result of competition wins.

Education

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

- 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.