

LUCAS FONTANA

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SUMMARY

Full-stack software engineer with over 5 years of experience building robust and scalable web, IoT, and AI-powered applications. Skilled in full software development lifecycle and system integration.

TECHNICAL SKILLS

TypeScript, Node.js, React, C#, .NET, PostgreSQL, MSSQL Server, Redis, REST APIs, Git, GitHub, Docker, CI/CD, IoT, MQTT

EXPERIENCE

FULL-STACK SOFTWARE ENGINEER | FERALBYTE

SEPTEMBER 2022 - PRESENT

- Led the development of a large-scale IoT platform for managing and monitoring industrial ovens across major supermarket chains in Portugal and Spain, including Continente and Mercadona.
- Developed a local-first embedded application with hardware integration to control the ovens.
- Designed and implemented a modular architecture featuring a robust data synchronization system capable of handling hundreds of connected ovens.
- Built a web application for audio engineers to simulate and optimize sound systems in large venues, featuring 3D visualizations and real-time SPL calculations on the GPU using WebGL.
- Developed multiple AI-powered prototypes, including a knowledge-based chat assistant, a social event recommendation system, a natural language analytics tool now evolving into a product, and a framework for orchestrating AI agents.
- Played a key role in improving the development workflow by introducing CI/CD pipelines with automated testing, code reviews, and dedicated environments for development and QA, as well as mentoring peers.

FULL-STACK SOFTWARE ENGINEER | NTT DATA EUROPE & LATAM

AUGUST 2021 - JULY 2022

- Collaborated with agile teams to deliver new features, bug fixes, and improve code performance for large enterprise clients such as Bentley, Bankinter, and Scottish Power.
- Contributed to several platforms, including web applications for vehicle documentation management, a web application for onboarding customers and opening bank accounts, and corporate websites with custom CMSs.
- Gained hands-on experience with enterprise architecture and structured delivery processes, including CI/CD pipelines and QA, which influenced future development workflow improvements.

FULL-STACK SOFTWARE ENGINEER | INFOS INFORMÁTICA E SERVIÇOS S.A

SEPTEMBER 2019 - AUGUST 2021

- Developed and maintained store and warehouse management systems, a POS, and a B2B e-commerce application.
- Developed the integration services between the store and warehouse management systems.
- Built a web-based version of the POS from scratch, enabling flexible customer interaction outside cashier terminals.
- Learned enterprise development practices including clean architecture and DDD.
- Onboarded and mentored junior engineers.

EDUCATION

UNIVERSIDADE DA MAIA UMAIA - PORTO, PORTUGAL

SEPTEMBER 2016 - JULY 2019

Bachelor's degree in computer science. Focused on software development with courses like Algorithms and Data Structures, Object-Oriented Programming, Web and Mobile development, and Database Design and SQL.

LANGUAGES

Portuguese - Native

English - C1