Pedro Henrique De Oliveira Soares

p.h.o.soares@hotmail.com | +55 (27) 99805-7628 |
https://www.linkedin.com/in/pedro-h-o-soares/ | https://github.com/pedro-h-o-soares |
https://pedro-h-o-soares.github.io/portifolio/

Summary

Software Engineer & Software Architect with 4 years of experience building high-performance, cloud-native systems across industrial and web environments. Specialized in designing scalable architectures, improving system reliability, and leading cross-functional teams in fast-paced delivery contexts. Strong background in .NET, Angular, Java Spring, and cloud platforms (AWS, GCP). Fluent in English, with proven leadership in complex technical initiatives and a research background in Machine Learning.

Skills

Languages & Frameworks: C#, ASP.NET, Java, Spring, Python, JavaScript, TypeScript

Frontend: Angular, React, Next.js, HTML, CSS

Databases: PostgreSQL, MySQL, Oracle, SQL Server

Tools & DevOps: Git, Docker, Kubernetes, GCP, AWS, IBM MQ, DataBricks

Other: SCRUM, Leadership, System Architecture, Machine Learning

Soft Skills: Strong communicator, highly autonomous, and collaborative in distributed environments

Certifications

AWS Certified Cloud Practitioner – Amazon Web Services	2024

Education

Federal University of Espírito Santo Master's Degree | Machine Learning applied to Photonics	Jan 2024 - Dec 2025
Federal University of Espírito Santo Bachelor's Degree | Electrical Engineering	Jan 2018 - Dec 2023

Languages

Portuguese	Native
English	Fluent

Work Experience

Software Architect | ArcelorMittal   **January 2025 - Present**

- Designed real-time applications supporting 24/7 production operations with low latency and high fault tolerance.

- Designed architecture for mission-critical industrial systems, ensuring high availability, resilience and security across production environments.
- Guided developers through design decisions, code reviews and best practices, improving delivery quality and consistency.
- Collaborated with cross-functional teams to align software architecture with operational and production requirements.
- Improved system reliability and performance by introducing modern architectural patterns and reviewing key services.

Tech Stack: .NET, Java, Oracle, Azure DevOps, IBM MQ, DataBricks

FullStack Developer | EloGroup   September 2024 - January 2025

- Delivered Angular, Spring, and Next.js features improving customer workflows and reducing manual processes.
- Enhanced frontend performance and maintainability through component refactoring and improved state management.
- Participated in agile delivery cycles, contributing to faster iterations and more stable releases.
- Maintained clean, testable codebases and collaborated through code reviews and pair programming.

Tech Stack: Angular, Java Spring, Next.js, TypeScript, MySQL, SCRUM, Git

FullStack Developer | Fisarmonica   April 2023 - November 2024
Development of a web-based platform for musical education

- Led complete rearchitecture of a WordPress-based educational platform, resulting in 100% user growth in 7 months and significant performance improvements.
- Rebuilt key components, reducing page load time by up to 4×, improving retention and engagement.
- Migrated the entire platform to Google Cloud using GKE, enabling autoscaling, improving deployment speed, and supporting traffic growth of 2×.
- Directed technical decisions, mentored the development team, and established engineering best practices.
- Improved application performance by optimization of MySQL database architecture.

Tech Stack: JavaScript, HTML, CSS, PHP, JQuery, Python, SQL, MySQL, Git

Desenvolvedor FullStack| Etaure   April 2022 - April 2023
Involvement in various projects related to software development and maintenance.
- Participation in a system restructuring project for a POS machine administration web system developed in ASP.NET and using SQL Server.
- Collaborated with the team during the project, taking the lead in communicating with superiors about team challenges and acting as a developer with a strong emphasis on the quality of code and proposing solutions to problems.
- Developed an automation system for database migration using Python, reducing project delivery time by approximately 30%.

- Engaged in the maintenance of monitoring and management software for the ArcelorMittal Tubarão, developed in Angular and Java, with an Oracle database.
- Also involved in the maintenance of monitoring software for ArcelorMittal Tubarão developed in WPF and .NET, with an Oracle database.

Tech Stack: .NET, ASP.NET, Entity Framework, Java, Angular, JavaScript, TypeScript, HTML, CSS, Oracle, SQL Server, Python

Personal Projects

Neural Network for Nonlinear pulse propagation in Fiber   Dec 2023

https://ele.ufes.br/sites/engenhariaeletrica.ufes.br/files/field/anexo/pg2_pedro_soares.pdf

The project was carried out as the Electrical Engineering final thesis. It involves a neural model capable of predicting pulse states during their propagation in a nonlinear optical fiber.

- The project was developed using PyTorch and Google Colab.
- The database was generated using the Split-Step Fourier (SSF) algorithm.
- An average coefficient of determination of 92% was achieved.

Tech Stack: Python, Pytorch, CNN, Machine Learning