

# LEONARDO SANTOS

Senior Full-Stack Engineer & UI/UX Designer



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I am a senior Software Engineer with 5+ years of experience building high-impact websites that positively impact the world. My expertise spans front-end, back-end, and database technologies. With startup experience and an entrepreneurial mindset, I translate business requirements into scalable, user-centric solutions. I've worked autonomously and in collaborative environments, using synchronous and asynchronous communication to foster teamwork alongside interdisciplinary teams of scientists, managers, and developers in remote, hybrid, and on-site roles across diverse international settings.

## WORK EXPERIENCE



### Senior Software Engineer

Instituto Aqualie | Juiz de Fora, Brazil | on-site  
Feb 2024 – present

- Led the development of a cutting-edge GIS web app for environmental analysis and real-time data visualization, optimizing large geospatial datasets for faster insights. Adopted by 100+ environmental scientists and policymakers, the project was recognized as revolutionary by the federal agency IBAMA.
- Developed a pioneering system to assess human impact on whale and dolphin species along Brazil's coast, influencing 2+ government regulations and helping 10+ maritime companies optimize their routes.
- Built a real-time data transmission system that accelerated scientific operations, reducing data processing time by over 60 days.
- Integrated a machine learning algorithm into a web app to classify Brazilian coastal dolphins - an innovation in the Brazilian market that reduced manual identification time from days to minutes.
- Built a scalable API to support the front-end application, ensuring performance and integration. The system now handles 5 different projects, showcasing its robustness and scalability.

Technologies: Angular | React | Node.js | MySQL – PostgreSQL | Python | UI/UX Design | Figma



## Full-Stack Developer

PACT - Parque do Alentejo de Ciência e Tecnologia | Évora, Portugal | remote

Apr 2022 – Feb 2024

- Led the development of a mobile app for a recycling startup, integrating receipt scanning and PIN-based payments designed to divert 17+ tons of waste annually from landfills through incentivized recycling.
- Designed and developed the entire back-end, database architecture, and recycling station system, along with an internal management platform for administrators, ensuring 100% compliance with project KPIs.
- Created comprehensive technical documentation for stakeholders, ensuring clarity and usability.

**Technologies:** Angular | Node.js | MySQL | UI/UX Design



## Product Manager

Demola | Portalegre, Portugal | hybrid

Sep 2022 – Feb 2023

- Managed a project with an interdisciplinary team to combat fake news, developing an innovative product strategy that analyzes links by cross-referencing page, domain, and online data to assess content credibility.
- Conducted in-depth research and strategy development, delivering a comprehensive final report highlighting the system's capability to reduce misinformation by 30%.

**Technologies:** Product Management | Reporting & Analysis



## UI Designer

ATAALO | Rzeszow, Poland | remote

Feb 2020 – Mar 2021

- Designed the website UI and branding for a tourism startup, including the logo and visual elements. The company garnered 3 international awards, significantly boosting the startup credibility and visibility in the market.

**Technologies:** Adobe XD | UI/UX Design | User Interface Prototyping | Design

## EDUCATION



## Software Engineering Degree

Polytechnic Institute of Portalegre | Portalegre, Portugal  
Out 2018 – Nov 2023

**33 certifications with 800+ hours in:**

JavaScript | TypeScript | Angular | React | Node.js | PHP

SQL | Git | Bootstrap | HTML | CSS | IT | Java | SEO

Management | UI & UX Design | Marketing