

João Pedro Vale

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Skills

Languages: TypeScript, C#, Python, Golang, PHP, SQL

Technologies & Tools: Node.js, NestJS, React (Vite/Next), .NET Core, AWS (SQS, SNS, EC2/ECS, S3, RDS), GraphQL, DataDog, Redis/Valkey, MongoDB, PostgreSQL

Work Experience

LWSA May 2024 - Present

Senior Backend Engineer

- Engineered a mission-critical tracking engine processing **25M+ package updates monthly** with a 99.9% uptime target.
- Orchestrated API integrations for **8 major logistics carriers**, reducing data inconsistency by 15% through a unified event normalization layer.
- Optimized event-driven workflows using AWS SQS/SNS, facilitating a 10% improvement in notification delivery speed to end customers.
- NestJS, GraphQL, AWS (SQS, SNS, ECS, RDS), Redis, Valkey, DataDog, Keycloak, PostgreSQL.

Alergocenter Sept 2025 - Feb 2026

Senior Software Consultant

- Architected 3 custom full-stack systems from scratch, **automating 50% of manual administrative workflows** previously unaddressed by legacy software.
- Led the full SDLC for 30+ internal users, resulting in a **10% decrease in software-related support tickets** through intuitive UI/UX and robust backend logic.
- Reduced budgeting response time by 50% by implementing an automated PDF generation and management tool.
- NestJS, React, Cursor IDE, PostgreSQL, Docker, Software Architecture.

Tegra May 2023 - May 2024

Senior Full Stack Developer

- Delivered 8+ high-impact projects for major clients like **Stix (10M+ active users)**, maintaining a 90% on-time delivery rate in a fast-paced environment.
- Optimized data extraction processes by developing crawlers that handled **150k+ daily records**, increasing data availability for BI by 50%.
- Reduced technical debt by 15% through the implementation of automated testing and code review standards across cross-functional teams.
- NestJS, React, AWS (ECS, S3, SQS, SNS), MongoDB, PostgreSQL.

Jazida.com May 2021 - May 2023

Backend Developer

- Engineered an NLP pipeline processing **1,000+ daily gazette pages**, achieving 90% classification accuracy and reducing manual review time by 70%.
- Developed a human-in-the-loop training system that increased AI model performance by 15% within the first 6 months of deployment.
- Managed high-volume data pipelines, extracting structured data from **10k+ complex PDF documents monthly**.
- Node.js, NLP, Machine Learning, Web Crawlers, MongoDB, PostgreSQL.

Software Developer

- Developed a telemetry system monitoring **100+ critical railway assets**, enabling predictive maintenance that reduced operational downtime by 15%.
- Automated inventory management for 5,000+ spare parts, decreasing stock discrepancy by 10% through real-time tracking tools.
- .NET Core, Node.js, React, Python (Pandas), PowerBI, Predictive Analytics.

Education

PUC-Rio (Pontificia Universidade Católica do Rio de Janeiro)

2020 - 2022

M.Sc. in Informatics (Incomplete)
Advanced studies in Machine Learning and Artificial Intelligence.

Universidade Estadual do Maranhão (UEMA)

2016 - 2020

B.S. in Computer Engineering

Languages

Portuguese

Native

English

Advanced (C1)

Spanish

Basic

Awards, Publications & Certifications

- **1st Place Award - SECTI-MA (2020)**^[1]: Best research work at the National Science and Technology Week.
- **Software Intellectual Property (INPI)**^[2]: Registered author of "Pininga" (Registration: BR512018000815-1).
- **Academic Publication**^[3]: "Epilepsy Detection Using Artificial Neural Networks".
- **Technical Certifications:**

Web & Mobile Dev (React/Node/React Native)
NestJS Zero to Hero | Algorithms Masterclass
Advanced C# OOP | Data Science & Extraction

Mindworks
Udemy
Udemy