José Ricardo Alves Figueirôa

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About Me

I am a software engineer currently working at a Lawtech, with solid experience in backend development and a strong fullstack capability — including cloud infrastructure and frontend interfaces. I excel in technical skills and am a fast learner.

Professional Experience

Senior Software Engineer @ Jusfy   Oct 2025 - Present

– Member of the Platform squad responsible for systems serving thousands of MAU and DAU.
– Building and scaling lawtech solutions focused on legal automation and high-reliability workflows.
– Designing, maintaining, and improving backend services and internal tools.
– Developing frontend interfaces with React and Next.js to support operational and client-facing features.
– Technologies: Node.js, TypeScript, NestJS, React, Next.js, PostgreSQL, AWS

Backend Developer @ Beyond Co. (Brazil)   Jun 2023 - Oct 2025

– Took over as technical owner of the company's legal automation platform, leading its architecture, maintenance, and scaling from 10 to nearly 200 client contracts, despite joining with no prior RPA experience and building expertise on the job.
– Scaled the platform's usage to serve over 1,000 daily active users across multiple organizations.
– Designed, developed, and maintained backend services and RPA flows using Node.js, Puppeteer, and BullMQ, executing automated filings and interactions with legal systems, handling over 2,000 daily runs.
– Resolved critical automation failures, increasing success rates from 84% to 92%.
– Implemented monitoring tools and dashboards to track KPIs and proactively identify recurring issues.
– Built robust filing workflows with NodeJS, cloud functions, puppeteer, n8n, and BullMQ/RabbitMQ.
– Modernized the NodeJS codebase: 3x faster startup, fixed hot reload, improved developer experience, migrated module system.
– Conducted code reviews and promoted best practices among team members.
– Technologies: NodeJS, Typescript, Javascript, VueJs, Express, Puppeteer, BullMQ, RabbitMQ, GCP, Docker, n8n, Jest, Firebase

Fullstack Developer @ Navalport (Brazil)   Oct 2022 - Jun 2023

– Led development of a mooring monitoring system that reduced maneuvering risks and equipment wear.
– Introduced Swagger and AWS SAM to standardize APIs and implement Infrastructure as Code practices.
– Built a satellite-based vessel tracking system to enhance planning, fines calculation, and real-time logistics predictability.
– Developed interactive dashboards and exportable operational reports using D3.js, improving visibility and decision-making for port operations.
– Designed and implemented an operational communication platform including a real-time feed and chat system, leveraging AWS Amplify for scalability and reliability.
– Technologies: NodeJS, Typescript, Angular, D3.js, PostgreSQL, AWS, AWS Amplify, Docker

Fullstack Developer @ Ausy (France)/Orange   Mar 2021 - Sep 2021

– Designed the architecture and network of a Proof of Concept for a *Tests as a Service* platform enabling SmartTV application testing.
– Implemented a microservice in Java Spring Boot to handle resource allocation within the testing platform.
– Developed frontend interfaces in Angular that integrated with cameras and SmartTVs to display and control the TV screen.
– Delivered the PoC including architecture, data models, networks, and system code.
– Technologies: Angular, Typescript, Javascript, Java Spring Boot, Docker, IoT

Fullstack Developer @ Navalport (Brazil) Jul 2020 - Jul 2021
– Developed and deployed port security and intelligence systems integrating AIS vessel detection, mooring monitoring, and maneuver planning.
– Designed and implemented digital signal processing algorithms to calculate vessel speed and docking approach using sensor data.
– Worked directly with low-level hardware and IoT sensors for data acquisition and system integration.
– Built real-time dashboards to support port operators in decision-making and risk monitoring.
– Technologies: NodeJS, Angular, PostgreSQL, IoT, Digital Signal Processing (DSP), D3.js, AWS, Docker

PROJECTS

CargoSight Gerdau
– Won 2nd place in the University of Pernambuco's innovation program; developed and validated a PoC at Gerdau's steel plant.
– CargoSight is a B2B SaaS system that uses computer vision to monitor industrial areas and detect operational risks in real time, such as missing PPE, people in hazardous zones, and suspended load movement.
– Integrated IP cameras, deep learning models (CNNs), and IoT layers for automated alerts, incident logging, and analytical dashboards.
– Post-validation, adopted and sold to two ports, featuring multi-tenant architecture, secure authentication, user/org management, and client-specific dashboards.
– Skills: Python, Flask, Computer Vision, NodeJS, Typescript, Javascript, NestJS, ReactJS, MongoDB

EDUCATION

Master's in Computer Engineering Polytech Côte D'Azur
– Relevant courses: Design Thinking, Mobile and IoT Programming, Embedded Systems, Data Science and Neural Networks, Linux Driver Programming, Lambda Calculus and Type Theory
– Activities: Exchange Program, Research on Simulation and Testing Environments for Autonomous Vehicles in collaboration with **Inria**, Internship at Ausy serving Orange

Bachelor's in Computer Engineering (GPA 8.8/10) Federal University of Pernambuco
– Relevant courses: Operating Systems, Computer Architecture, Machine Learning, Algorithms and Data Structures, Calculus, Physics
– Activities: Teaching Assistant in Logic, Teaching Assistant in Computation Theory, Scientific Research in Logic

Skills
– Javascript, Typescript, NodeJS, NestJS, Express, GCP, AWS, Puppeteer, RabbitMQ
– PostgreSQL (SQL), Angular, Docker, Java Spring Boot, NoSQL (DynamoDB, Firestore)

Languages
– English (Advanced), French (Fluent), Portuguese (Native)