Alison Rafael Marinho Gonçalves

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Software Engineer with 10 years of experience building scalable web applications, with a strong emphasis on frontend architecture, user experience, and AI-native development workflows. Skilled in TypeScript-based frontend frameworks, automated testing, CI/CD, and cloud deployment, with a track record of leading performance optimization, architecture decisions, and code quality initiatives across engineering teams.

SKILLS

Languages: JavaScript, TypeScript

Frontend Frameworks: Angular, Vue.js

Backend Frameworks: NestJS, Express.js

Testing & CI/CD: Jest, Playwright, automated testing, deployment pipelines

Databases: MongoDB

Cloud & DevOps: AWS, Docker, Kubernetes

Observability: Datadog, LogRocket

Protocols: HTTP, MQTT, CoAP, OPC UA

Practices: AI-Native Development, Full-Stack Engineering, Site Reliability Engineering, Code Review, Performance Profiling

EXPERIENCE

Senior Software Engineer, BairesDev *(September 2021 - Present)*

- Led performance optimization initiatives on a full-stack mortgage platform (Vue.js frontend, Node.js/ Express API, MongoDB), reducing critical endpoint response times from seconds to milliseconds through load testing and system improvements.
- Re-architected the file management framework to support data streaming, cutting memory consumption and infrastructure costs.
- Served as technical lead for multiple complex third-party integrations (credit, title orders, MISMO, Fannie Mae, Freddie Mac), working across a monorepo of services including web, API, jobs, and document generation.
- Drove SRE practices, code reviews, and deployment processes on AWS (EKS, S3) to maintain platform stability and support continued growth in a regulated, data-consistency-critical environment.

Senior Software Engineer, labsit *(August 2020 - September 2021)*

- Led a squad of 4-6 engineers on an Angular-based ERP product, owning architectural decisions, task delegation, and code reviews across all frontend deliverables.
- Built an internal Angular component library based on the company's design system, growing it to 50+ reusable components adopted across 6 projects.
- Cut development time by at least 50% for backend engineers doing frontend work by enabling them to ship UI without deep Angular expertise.
- Set technical direction and code standards for the squad, mentoring engineers on frontend best practices while balancing sprint planning against delivery deadlines.

Software Engineer, Inatel Competence Center *(June 2016 - August 2020)*

- Designed and built an IoT platform from scratch supporting HTTP, CoAP, and MQTT protocols, handling continuous data from over 200 devices (lighting, sensors, electrical panel) each sending requests at 1 request per second.
- Integrated the platform across the full INATEL campus and built a real-time visualization application for device data.
- Researched new frameworks and technologies to produce proof-of-concepts and estimations, improving the accuracy and speed of project scoping for senior engineers.
- Developed frontend features for a Telecom Plans Design System application for Ericsson, collaborating with cross-functional teams to improve user experience and platform functionality.

EDUCATION

Bachelor of Science, Information Technology, Universidade do Vale do Sapucaí - UNIVÁS
(January 2014 - December 2017)