

# Israel Machado de Borba

Backend / Platform Engineer • Tech Lead

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Location: Canoas, RS, Brazil (Remote-friendly)

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## Professional Summary

Backend-focused Tech Lead with 15+ years of experience designing, scaling, and modernizing distributed systems. Strong expertise in Node.js, TypeScript, .NET, and cloud-native architectures on AWS and Azure. Proven track record of migrating legacy platforms to microservices and serverless solutions, improving performance, reliability, and cost efficiency. Hands-on leader with deep experience in system design, data modeling, observability, and cross-functional collaboration.

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## Core Technical Skills

**Languages:** TypeScript, JavaScript, C#

**Backend & APIs:** Node.js, Express.js, .NET Core, REST, GraphQL, RPC, AMQP

**Cloud & Infrastructure:** AWS (Lambda, S3, DynamoDB, Cognito), Azure (Kubernetes, Cosmos DB, Azure DevOps)

**Databases:** PostgreSQL, SQL Server, MongoDB, DynamoDB

**Messaging & Streaming:** RabbitMQ, Queues, Event-driven architectures

**DevOps & Platform:** Docker, Kubernetes, CI/CD (Jenkins, Azure DevOps), PM2

**Observability & Analytics:** Sentry, Splunk, Amplitude, BigQuery

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## Professional Experience

### Senior Backend / Fullstack Engineer

**SKIntertainment** | May 2022 – Present

- Designed and evolved scalable backend services using Node.js and TypeScript, focusing on availability, performance, and fault tolerance.
- Migrated legacy workloads to AWS Lambda and Docker-based microservices, reducing infrastructure costs and operational overhead.
- Implemented integrations with observability and analytics platforms (Amplitude, Sentry, Splunk) to improve system visibility and incident response.
- Built serverless media processing pipelines using AWS Lambda for video transcoding and image/video watermarking.
- Refactored critical microservices to improve safety, throughput, and response times.

- Actively contributed to product strategy by proposing business and technical initiatives, translating them into epics, tickets, and clear Definitions of Done.
  - Leveraged BigQuery to analyze cross-sell behavior and purchase data, enabling data-driven product decisions.
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## Fullstack Engineer

BairesDev | May 2021 – May 2022

- Developed frontend components using Vue.js, HTML5, and CSS3, with full end-to-end testing using Cypress.
  - Designed GraphQL APIs optimized for mobile consumption, backed by PostgreSQL.
  - Built and integrated backend services using Node.js, Express, MongoDB, Redis, Elasticsearch, and Docker.
  - Improved scalability and resilience by addressing edge cases and optimizing service interactions.
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## Software Architect

Stoneridge | January 2020 – May 2021

- Led the migration of on-premise systems to AWS, using Cognito for authentication and Python-based AWS Lambda functions for serverless processing.
  - Designed system architecture and guided a cross-functional team working with Python, Node.js, and .NET Core.
  - Automated build and deployment pipelines using Jenkins, improving release reliability and speed.
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## Senior Software Engineer / Tech Lead

TOTVS | August 2017 – January 2020

- Led the migration from a .NET Framework monolith to a Node.js microservices architecture, improving API response times by up to 95%.
  - Decoupled tightly coupled legacy components to enable modularity, independent deployments, and horizontal scalability.
  - Designed and implemented CI/CD pipelines using Azure DevOps and Jenkins.
  - Transitioned synchronous HTTP APIs to asynchronous RPC/AMQP communication using RabbitMQ.
  - Designed Kubernetes-based deployment strategies on Azure to support scaling and resilience.
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## **Software Engineer**

**Klassmatt** | March 2014 – August 2017

- Solved complex performance and data-reliability problems across enterprise systems.
  - Developed .NET Framework services and SQL Server solutions focused on fast querying and data safety.
  - Designed and implemented an internal search platform using Lucene/Elasticsearch, significantly reducing query times.
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## **Software Engineer**

**Perto** | August 2007 – March 2014

- Developed internal systems for collecting hardware telemetry and managing client contracts.
  - Created SLA and MTBF reporting dashboards to prevent contract breaches and improve hardware quality.
  - Used operational data to identify business risks and improvement opportunities.
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## **Education**

### **Postgraduate Degree – Software Architecture**

Universidade XP, São Paulo, Brazil — 2024 - x

### **Bachelor's Degree – IT Management**

Unisinos, São Leopoldo, Brazil — 2014

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## **Achievements & Impact**

- **Performance & Cost Optimization:** Delivered performance improvements and cost reductions in large-scale financial systems.
  - **Business Impact:** Enabled over USD 2M in annual savings in tax and financial processing platforms through architectural and backend improvements.
  - **Mentorship & Leadership:** Actively mentored engineers and promoted best practices across teams.
  - **Innovation:** Created a fancy internal system responsible for paying expenses in hours instead of days.
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## **Languages**

Portuguese: Native

English: Fluent