

João Bruno Melo de Alencar

Senior Software Engineer

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PROFESSIONAL PROFILE

Senior Software Engineer with 8+ years of experience building and scaling Node.js/TypeScript systems in production. Strong background in microservices, event-driven architecture with Apache Kafka, cloud infrastructure on AWS, and Domain-Driven Design. Currently leading the engineering function at a growing delivery platform, with hands-on responsibility for performance, reliability and CI/CD.

KEY SKILLS

Languages & Runtime: TypeScript, JavaScript (Node.js)

Backend & Architecture: Microservices, Monoliths, Domain-Driven Design, REST APIs, OpenAPI/Swagger, Event-Driven (Kafka, RabbitMQ)

Frontend: React, Next.js, Vue.js, Angular, Ionic

Data: MongoDB (incl. Atlas Search), PostgreSQL, Redis, TypeORM, Mongoose

Cloud & DevOps: AWS (EKS, S3, CloudFront, Parameter Store), Heroku, Docker, Kubernetes, GitHub Actions, Cloudflare

Observability: Grafana, Prometheus, Loki, Librato, Papertrail (SolarWinds), OpsGenie

Testing & Quality: Jest, automated testing strategies, code review

Languages: Portuguese (native), English (full professional proficiency)

PROFESSIONAL EXPERIENCE

Software Engineer / Manager — Quero Delivery

Jan 2023 – Present

Remote, Brazil · Food delivery platform

- Lead the engineering function across backend services, infrastructure and team practices, owning architectural decisions and technical strategy while remaining hands-on with implementation.
- Designed and improved CI/CD pipelines with GitHub Actions and Heroku, accelerating deployments and reducing release friction.
- Drove event-driven architecture using Apache Kafka producers/consumers for order workflows, decoupling services and enabling real-time domain events across the platform.
- Built and operated services on AWS EKS (Kubernetes), ensuring high availability and horizontal scalability.
- Optimised product search by introducing MongoDB Atlas Search, improving relevance and user-perceived performance.
- Improved caching strategy with Redis (scaling and tuning), cutting response times and backend load.
- Implemented end-to-end observability with Grafana, Prometheus, Loki, Librato and Papertrail (SolarWinds), integrated with OpsGenie for proactive incident response.
- Coached engineers on Domain-Driven Design, code quality and problem-solving, fostering a high-performance culture.
- Managed access and security across AWS, Heroku, Cloudflare and GitHub organisation.

Full Stack Developer — Quero Delivery

Jun 2021 – Jan 2023

- Built and maintained Node.js / TypeScript services in both monolith and microservice architectures.
- Developed customer-facing features and internal tooling end-to-end, from API design to React frontends.
- Authored OpenAPI (Swagger) documentation to streamline API consumption across teams.

Full Stack Engineer — AE Studio

Feb 2021 – Jun 2021

Los Angeles / Florianópolis · International consultancy

- Delivered features for international clients across microservice architectures at scale.
- Worked on an Ethereum NFT marketplace: deployed smart contracts, listened to on-chain events with web3.js, and synchronised state into a cache database to improve UX.
- Stack: React/TypeScript, Node.js/TypeScript, MongoDB, Solidity smart contracts, web3.js, Hardhat, Serverless framework, IPFS, NFT.Storage, Alchemy.

Full Stack Engineer — V4 Company

Sep 2020 – 2021

- Built a Trello-like task management application supporting multiple visualisation modes, drag-and-drop reordering, recurring tasks and scheduling — handling complex domain rules at scale.
- Designed the API foundation from scratch: TypeScript, TypeORM, Jest, Open API (Swagger), environment configuration and deployment scripts.
- Integrated Google Calendar for scheduling workflows.
- Stack: React/TypeScript, Node.js/TypeScript, PostgreSQL, MongoDB, TypeORM, Jest.

Full Stack Developer — **GeekHunter Brasil**

Aug 2019 – Sep 2020

Tech recruitment platform

- Built SEO-optimised landing pages and job search pages, focused on Core Web Vitals, semantic HTML and page-load performance.
- Engineered a large-scale data extraction pipeline (100M+ user records) in Node.js to format and export data for third-party integration.
- Created an interactive salary calculator: complex SQL with subqueries and outlier handling, results plotted on charts by technology and experience.
- Integrated an email marketing API and led a feasibility study to migrate from Angular.js to React with Server-Side Rendering.
- Stack: Ruby on Rails, Python (Flask), Node.js, Angular.js, PostgreSQL.

Full Stack Developer — **Innovate**

May 2017 – Jun 2018

- Built an admin panel for workforce management and service requests using Angular 2.
- Developed a geospatial application (Leaflet) plotting streetlights on a map for maintenance signalling, including offline-first sync using CouchDB + PouchDB.
- Designed and built REST APIs to manage geo-points, employees and maintenance workflows.
- Stack: Angular, Node.js, Express, Sequelize, Mongoose, Ionic, Leaflet, CouchDB/PouchDB, MongoDB, PostgreSQL.

Frontend Developer — **Prática STI**

Oct 2016 – May 2017

- Developed an admin panel to manage a delivery application and a companion mobile app for a virtual loyalty card.
- Published apps to the Apple App Store; first commercial experience with Vue.js.
- Stack: JavaScript, Vue.js, Angular, Ionic.

Freelance Full Stack Developer — **Independent / Workana**

Feb 2019 – Jul 2019

- Delivered web development projects for various clients on a contract basis.

SIDE PROJECTS

Founder & Host — **POE — Programação Orientada a Estagiário — YouTube**

Jun 2020 – Oct 2021

- Co-founded an educational YouTube channel teaching web development through live pair-programming sessions.
- Curriculum covered HTML/CSS/JS, React, Next.js, Node.js, TypeScript, MongoDB and PostgreSQL.

EDUCATION

Computer Science — Unisinos (2021 – 2023)

BSc Computer Science — FACIMA (2014 – 2018)

CERTIFICATIONS

- AWS Certified Cloud Practitioner — Amazon Web Services
- AWS Certified Solutions Architect – Associate (in progress)
- MongoDB Developer Learning Path — MongoDB (4 badges: Core Concepts & Architecture, CRUD Operations, Aggregation Fundamentals, SQL to Document Model; 2025)