ALESSANDRO VAIZ

Senior Software Engineer

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SUMMARY

Senior Software Engineer with strong expertise in backend and distributed systems, specializing in event-driven architectures, cloud infrastructure, and high-throughput applications. Proven experience building and operating mission-critical systems in financial services and automated logistics environments.

EXPERIENCE

FullStack Engineer, *Fulfil Solutions*   10/2024 – Current | Mountain View, CA, USA
- Developing and maintaining software for a highly automated fulfillment platform, where backend systems directly impact warehouse operations and order throughput.
- Building full-stack features using Node.js, TypeScript, .NET, Kubernetes, Pubsub, MySQL and Angular as main technologies.
- Collaborating closely with product, automation, and operations teams to translate complex logistics and fulfillment workflows into scalable software solutions.
- Participating in architectural discussions, code reviews, and cross-team initiatives.

Backend Engineer, *Onz Finance*   10/2023 – 10/2024 | São Miguel do Oeste, Brazil
- Designed and developed backend services in a high-throughput, event-driven architecture, processing 10,000+ transactions per minute.
- Built and maintained critical integrations with Brazil's Central Bank, ensuring reliability, traceability, and compliance.
- Worked extensively with Node.js, TypeScript, AdonisJS, AWS, and monorepo architectures.
- Led infrastructure and deployment initiatives using Pulumi, improving environment consistency and deployment reliability.
- Implemented backend security measures such as data encryption, secure authentication flows, and access control mechanisms

Backend Engineer, *MB Labs*   03/2022 – 10/2023 | São Paulo, Brazil
- Developed and maintained backend services for a large-scale internet banking platform.
- Implemented cloud-native solutions using AWS (Lambda, Step Functions, SQS, RDS) and Docker.
- Built APIs and background workflows using Node.js and NestJS, focusing on security and performance.
- Designed asynchronous workflows and message-driven processes to improve system scalability and reliability.
- Contributed to and maintained CI/CD pipelines, code reviews, and automated testing.

Full Stack Engineer, *Ten Brasil*   07/2021 – 03/2022 | Maravilha, Brazil
- Developed an e-commerce platform for solar energy products, generating BRL 50M in initial sales.
- Worked across backend, frontend, and mobile using Laravel, Node.js, and Flutter.
- Led the development and deployment of internal and customer-facing systems.

Early Career, *Unimed*   03/2019 – 07/2021 | São Miguel do Oeste, Brazil
- Worked across IT operations, data analysis, and software support roles.
- Managed internal networks and firewall infrastructure using SonicWall.
- Developed SQL-based BI dashboards and presented insights to executive leadership.
- Supported system rollouts, internal tooling, and database maintenance.

EDUCATION

Bachelor: Computer Science, *Unoesc Campus São Miguel*   01/2023 | São Miguel do Oeste, Brazil

SKILLS

Programming Languages: Node.js, JavaScript, TypeScript, Dart

Frontend & Mobile: React, Next.js, Angular, Flutter

Cloud & Infrastructure: AWS (Lambda, Step Functions, SQS, RDS, EC2, ALB), Docker, Kubernetes, Pulumi, Flux, Google Cloud, Nginx

Security & Identity: Keycloak, OAuth-based architectures

Databases & Messaging: SQL, NoSQL, Redis, RabbitMQ, Pubsub, Kafka

Frameworks: NestJS, Express, Fastify, AdonisJS, SailsJS, .NET

Engineering Practices: Event-Driven Architecture, Microservices, Monorepos, CI/CD, Automated Testing

LANGUAGES

Portuguese: First Language   **English:** C1 Advanced