

Arthur Andrade Nunes

Backend Software Engineer

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SUMMARY

Backend engineer with hands-on experience designing and building distributed systems in Java and Node.js. Currently leading the end-to-end development of an MLM platform covering ERP and commission logic. Comfortable across the stack — from media-processing pipelines and payment integrations to architectural decisions around scalability, observability, and maintainability.

PROFESSIONAL EXPERIENCE

Mid-Level Backend Engineer — Multidrop

Oct 2025 – Present | Florianópolis, SC (On-site)

Stack: NestJS, BullMQ, Prisma, AWS, Java, Spring Boot, FFmpeg, Google Cloud Storage, Pub/Sub, Stripe, Docker, GitHub Actions

- Leading the end-to-end development of **Natura Vitalis**, a full MLM (multi-level marketing) platform — covering ERP business logic, hierarchical commission engines, rank progression, and downline management — built with NestJS, BullMQ, Prisma, and AWS.
- Designed asynchronous job processing with BullMQ for commission calculation, payout scheduling, and rank updates across the MLM tree, ensuring scalability under high transaction volume.
- Modeled core domains — orders, inventory, financial reconciliation, and member hierarchy — applying DDD and Clean Architecture principles.
- Built and maintained secure REST APIs in Spring Boot with JWT and OAuth 2.0 for authentication and authorization.
- Integrated Stripe for payment processing, ensuring reliability, security, and full transaction traceability.
- Drove technical decisions and architectural improvements focused on scalability, observability, and long-term maintainability.
- Automated build and deployment pipelines with GitHub Actions, improving the continuous delivery cycle.
- Developed video transcoding pipelines with FFmpeg, producing multi-resolution outputs to optimize streaming delivery.
- Implemented automated subtitle generation and multilingual dubbing by integrating FFmpeg with AI services, expanding platform accessibility.

Junior Backend Engineer — Multidrop

Jan 2025 – Oct 2025 | Florianópolis, SC

Stack: Java, Spring Boot, FFmpeg, Google Cloud Storage, Pub/Sub, Stripe, Docker, GitHub Actions

- Built REST APIs with Spring Boot supporting core platform features.
- Implemented Google Cloud Storage integrations for upload, storage, and retrieval of video assets.
- Developed asynchronous integrations using Google Cloud Pub/Sub, contributing to decoupling and scalability.
- Contributed to the Stripe integration, helping implement payment flows and security validations.

- Collaborated on version control practices, code reviews, and production bug fixes.
- Worked in an agile environment using Kanban to organize deliveries.

Software Development Intern — Sankhya

Feb 2024 – Nov 2024 | Belém, PA

Stack: SQL, JavaScript, HTML, Sankhya ERP

- Developed automated financial reports — Income Statement (DRE), Cash Flow, Sales Report, and Payroll — using SQL.
- Built dashboards and administrative screens for visualizing clients' financial and operational metrics.
- Worked on the deployment and customization of the Sankhya ERP across multiple clients, gaining domain knowledge of business rules and financial flows.
- Provided technical support and participated in requirements analysis, ensuring solutions met end-user needs.

Web Development Intern — Civil Police of Pará

Sep 2023 – Feb 2024 | Belém, PA

Stack: PHP (Laravel), JavaScript, Vue.js

- Led the full modernization of the Internal Affairs system, rewriting the application on a modern stack.
- Developed new backend and frontend features, improving performance, security, and user experience.

TECHNICAL SKILLS

Languages & Frameworks

Java (Spring Boot), Node.js (NestJS, Express), TypeScript / JavaScript (Next.js, React, Vue.js), PHP (Laravel)

Databases, ORM & Caching

PostgreSQL, MySQL, Prisma, Redis

Messaging & Async Processing

BullMQ, RabbitMQ, Google Cloud Pub/Sub — queue-based integration and background job orchestration

Media Processing

FFmpeg — transcoding, multi-resolution output, audio extraction, automated pipelines

Cloud & DevOps

AWS (S3), Google Cloud Platform (Storage, Pub/Sub), Docker, GitHub Actions (CI/CD)

Architecture & Best Practices

Clean Architecture, Domain-Driven Design (DDD), Hexagonal Architecture, SOLID, Design Patterns

Security & Authentication

OAuth 2.0, JWT — secure access control for RESTful APIs

Testing & Quality

JUnit, Mockito, Jest, Git / GitHub (GitFlow)

Modeling & Documentation

Swagger / OpenAPI, UML (class, sequence, and use case diagrams)

EDUCATION

Bachelor's Degree in Computer Science — Estácio University

2025 – Present

Bachelor's Degree in Computer Science — Federal Institute of Pará (IFPA)

2023 – 2025 (*transferred*)

LANGUAGES

Portuguese — Native

English — B2 (Certified)

PROJECTS

[Listafit.app](#) — Supermarket shopping list generator that turns a diet prescription into a curated grocery list, helping users translate nutritional plans into practical purchases.

Stack: Next.js, Supabase, OpenAI

[Recaap.dev](#) — Developer activity recap tool that reads commits and pull requests and generates natural-language summaries of work delivered, useful for stand-ups, retros, and performance reviews.

Stack: Next.js, Supabase, OpenAI