

Arthur Toledo

Backend Developer | Node.js | TypeScript | AWS | Microservices | React Native

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SUMMARY

Backend Developer with 6+ years of experience building scalable, high-availability systems with Node.js, TypeScript and AWS. Experienced in microservices architecture, PostgreSQL, MongoDB, DynamoDB, Kafka, RabbitMQ, Redis and CI/CD pipelines, and works on the frontend with React, React Native and Angular.

Worked across fintech, telecom, healthtech and e-commerce, both as an individual contributor and as a Technical Lead, and currently runs end-to-end projects as a freelancer — from requirements with the client through the API, the app and deployment. Native Portuguese, fluent Spanish, professional English (B2). Based in Brazil, open to remote Backend or Full-Stack roles and to relocation in Europe.

PROFESSIONAL EXPERIENCE

Freelance Backend Developer · Own projects and clients — current

- **Livraria Leitura** (bookstore chain in Brazil): internal corporate social network, built end to end across 4 repositories — API, mobile app, admin panel and chat service.
- Main REST API in **NestJS** and **PostgreSQL**, with TypeORM, Redis, AWS S3, Swagger, health checks, scheduled jobs, push notifications and transactional email.
- Mobile app in **React Native/Expo**, admin panel in React + Vite, and a separate real-time chat service built with **WebSockets/Socket.IO**.
- Also owns the commercial side: technical and commercial proposals, scope estimation and documented architecture decisions.

Senior Backend Developer · DBC Company (client: one of the largest banks in Paraguay) — April 2024 – April 2026 (2 yrs 1 mo)

- Helped build **from scratch** a digital payments system in a country that still relies heavily on cash, on the team owning the company onboarding, card terminal (POS) ordering and delivery flow. The integration supported events such as **Copa Sudamericana** matches paid for by card or PIX only.
- Built and maintained **microservices**, contributing to the definition and evolution of the architecture with a focus on performance, security and scalability.
- Backend with **Node.js** and TypeScript running on **AWS**, integrating PostgreSQL and DynamoDB, with automated tests and integrations between critical banking systems in a high-availability environment handling large data volumes.

Technical Lead · Squadra Digital — August 2023 – April 2024 (9 mo)

- Telegram chatbot that let **300+ B2B sales reps and consultants** check sales and proposals without opening a laptop, from anywhere and with no VPN.
- MVC architecture, clean code with TypeScript, unit tests with Jest, **Redis** for caching and **RabbitMQ** for messaging.
- Acted as the bridge between business and engineering, owning feature planning and delivery.

Senior Software Developer · Squadra Digital — November 2022 – August 2023 (10 mo)

- Main technical reference on the end-to-end redesign of the ****B2B ordering flow for telecom products****, changing how sales reps and directors interact with the system.
- Refactored a legacy module (AngularJS and Node.js) with no defined architecture, applying **Clean Architecture** with **NestJS** on the backend and Angular 10 on the frontend.
- Supported the team on **MSSQL** database modeling, clean code and business rules; built **Jenkins** pipelines for staging deployments.

Mid-Level Software Developer · Grupo Zelo — October 2021 – December 2021 (3 mo) · hybrid, Belo Horizonte

- Fully online sales and subscription platform for funeral service plans for one of the largest groups in the sector in Brazil, focused on UX and high scalability under pandemic demand.
- Node.js and NestJS with **Hexagonal Architecture** and microservices, messaging on AWS SNS and SQS, payments (card terminals over WebSocket, bank slip and PIX), **90% test coverage** with Jest/TDD and CI/CD on AWS (CodePipeline, CodeBuild, ECR, ECS).

Intern → Mid-Level Software Developer · Squadra Digital — July 2020 – November 2022

- Progressed from intern to mid-level developer: started on legacy systems with no defined architecture and moved on to delivering complete features, from design and prototyping with the client through to API and frontend, across the consultancy's client projects.

PROJECTS & OPEN SOURCE

- **convert-multiple-files** — open source npm library for document conversion (doc/docx/odt → pdf/html/base64). **~10,500 downloads in the last 12 months**, 25 published versions. TypeScript. github.com/ArtToledo/Convert-multiple-files
- **SourceTruth** — question answering over documents with ****RAG** implemented by hand, no framework: **embeddings in PostgreSQL + pgvector****, cosine similarity search and answers that always cite their sources. NestJS, Next.js, Anthropic/OpenAI/Google GenAI SDKs.
- **quem-e-voce** — real-time multiplayer deduction game in the browser, with optional login by design (anonymous matches run with no database and no session). Next.js, Socket.IO, Auth.js, Drizzle ORM, PostgreSQL.

TECHNICAL SKILLS

- **Languages & frameworks:** TypeScript, JavaScript, Node.js, NestJS, Angular, React, React Native/Expo, Next.js
- **APIs & testing:** REST, WebSockets/Socket.IO, system-to-system integrations; Jest, TDD, unit, integration and E2E tests
- **Architecture:** Microservices, Clean Architecture, Hexagonal Architecture, MVC, Clean Code, Design Patterns
- **Cloud / DevOps:** AWS (SNS, SQS, S3, CodeCommit, CodePipeline, CodeBuild, ECR, ECS), Docker, CI/CD, Jenkins
- **Data & messaging:** PostgreSQL (incl. pgvector), MongoDB, DynamoDB, MSSQL; Kafka, RabbitMQ, Redis
- **Domains:** Fintech, Telecom, Healthtech, E-commerce

EDUCATION

- **Bachelor's Degree in Systems Analysis and Development** — UNIASSELVI (2020 – 2022)
- **Technical Degree in Computer Networks** — Senac Minas (2015 – 2016)

LANGUAGES & CERTIFICATIONS

- **Portuguese:** Native · **Spanish:** Fluent · **English:** Professional (B2)
- **Certifications (Alura):** Angular Track; TypeScript parts 1 and 2; Relational database modeling.