# Matheus Brasil Aguiar

Backend Software Engineer | Node.js | NestJS | TypeScript

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## PROFESSIONAL SUMMARY

Backend Software Engineer with 3+ years of hands-on experience building scalable applications and mission-critical systems. Specialist in Node.js, NestJS, and TypeScript, with strong expertise in microservices architecture, complex integrations, and full-stack development.

Recent work on educational and fintech platforms, taking full ownership of the development lifecycle: from architecture and prototyping to deployment and documentation. Practical experience with PostgreSQL, Redis, Docker, CI/CD, and cloud computing (AWS, GCP, Vercel).

Focused on clean code, automated testing, performance optimization, and delivering business value.

## PROFESSIONAL EXPERIENCE

### Backend/Fullstack Software Engineer

*Buscar Inovar Educação* | Nov 2025 – Present | Remote

- Lead the end-to-end development of a large-scale educational platform, serving as the primary developer
- Architected and implemented type-safe backend using Next.js, TypeScript, and tRPC in a monorepo structure (Turborepo), ensuring data integrity and reducing integration bugs
- Integrated multiple critical services: payment gateways, cloud storage (S3/R2), transactional email services, and CDN
- Designed and optimized PostgreSQL database with complex queries and versioned migrations
- Managed complete development lifecycle: requirements gathering, architecture, implementation, testing, deployment, and technical documentation

### Backend/Fullstack Software Engineer

*ChatPay Go Labs* | Jul 2025 – Present | Remote

- Built core payment and conversational checkout system powered by AI, using NestJS, Node.js, and TypeScript in modular architecture
- Implemented secure architecture for financial transactions with PostgreSQL for persistence, Redis for caching/queues, and rigorous data validation
- Integrated payment APIs, AI services, and blockchain (Stellar) for transaction settlement
- Managed infrastructure with Docker and CI/CD pipelines for automated deployment
- Implemented automated tests (Jest) ensuring system quality and reliability

### Software Engineering Intern

*Vallourec Tubular Solutions Brazil* | Oct 2023 – Oct 2025 | Belo Horizonte, Brazil

- Developed internal web applications supporting critical industrial production processes using React and TypeScript
- Contributed to Vallourec UI (corporate design system), standardizing components and ensuring visual consistency across multiple applications

- Built scalable REST APIs using C# (.NET) and Java (Spring Boot) integrating with corporate systems
- Participated in complete software development lifecycle: requirements gathering, implementation, testing, and maintenance

## TECHNICAL SKILLS

| Backend | Node.js, NestJS, TypeScript, Express, tRPC, C# (.NET), Java (Spring Boot) |
|---|---|
| Frontend | TypeScript, React, Next.js, HTML5, CSS3, Tailwind CSS |
| Databases | PostgreSQL, MongoDB, Redis (cache/queues), ORMs (Prisma, TypeORM) |
| DevOps & Cloud | Docker, Git/GitHub, CI/CD (GitHub Actions), Linux, AWS, Google Cloud, Vercel |
| Testing & Quality | Jest, Supertest, TDD, Integration Testing, Data Validation (Zod, class-validator) |
| Architecture & Concepts | REST APIs, Microservices, Monorepo, SOLID, Design Patterns, Agile Methodologies (Scrum) |

## EDUCATION

**Bachelor's Degree in Software Engineering**

*Pontifical Catholic University of Minas Gerais (PUC Minas)* | Expected graduation: Dec 2026

**Specialization in Blockchain Technology, Tokenization and Smart Contract Security**

*NearX Educational Platform* | 2025 – Present

## LANGUAGES

**Portuguese:** Native

**English:** Fluent (reading, writing, and speaking)