

Amanda de Oliveira Pinheiro

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Fullstack Developer experienced in React, Next.js, TypeScript, Node.js, NestJS, PostgreSQL and AWS. I work on end-to-end web application development, from architectural decisions to deployment and monitoring. Comfortable making independent technical decisions, balancing quality, deadlines, and scope. Strong background in technical mentoring (30+ developers), code review, data modeling, and REST API design. Experience working with technical documentation and professional communication in English.

Core Stack: Node.js • TypeScript • NestJS • React • Next.js • PostgreSQL • MongoDB • Redis • Docker • AWS • CI/CD • Git

Professional Experience

Technical Mentor

Centro de Inovação da Escola Politécnica - PUCRS • Remote • Jul 2025 – Present

Technical lead for a web development training program run by the university's innovation center. Invited based on technical recognition during a prior internship.

- Plan and deliver technical training for 30+ developers, defining curriculum, schedule, and hands-on projects using React.js, Next.js, TypeScript and Node.js.
- Teach classes and workshops on component architecture, state management, API integration, and development best practices.
- Review technical deliveries through ongoing code reviews to ensure code quality and consistency.
- Create learning materials and establish coding standards adopted across the entire program.

Mid-level Fullstack Developer (Freelance/Contract)

Mainnet Design • Remote • Jun 2025 – Feb 2026

Contract role owning end-to-end feature delivery alongside mentoring and internship work.

- Led development of dashboard modules, reports, and CRUD operations — owning architecture, data modeling, and implementation with TypeScript, React, Node.js and NestJS.
- Designed and integrated REST APIs and AWS services (Lambda, S3), making decisions on contracts, scalability, and security.
- Actively contributed to architectural decisions — data modeling, route structuring, tool selection, and trade-off analysis.
- Identified performance bottlenecks in queries and high-volume data components, proposed and implemented solutions with measurable impact on response times.
- Set up and maintained CI/CD pipeline with GitHub Actions, and handled production incident investigation and resolution.

Fullstack Development Internship

Aceleradora Ágil - Remote • May 2025 – Jul 2025

Worked on an educational platform serving thousands of active users. Technical recognition during this internship led to the mentorship invitation at PUCRS.

- Built and delivered authentication, registration, and content display modules, owning work from modeling through implementation with React.js, Next.js, TypeScript and PostgreSQL.
- Refactored legacy features, reducing technical debt and improving code maintainability.
- Contributed to component architecture decisions, API contract definitions, and relational database design.
- Participated in code reviews, pair programming, and Scrum ceremonies within cross-functional teams.

Freelance Web Developer

Freelance • Remote • Apr 2024 – Jul 2025

End-to-end management of digital projects, from requirements to deployment and ongoing maintenance.

- Delivered corporate websites, landing pages, and e-commerce stores using WordPress, Elementor, WooCommerce and Bootstrap — managing timelines and client expectations.
- Defined and implemented performance strategies (Core Web Vitals) and technical SEO per project.
- Integrated payment gateways, newsletter services, and CRM APIs based on client needs.
- Set up full infrastructure (hosting, DNS, SSL, Linux VPS) and managed production deployments.

Projects

[Product Management](#)

Fullstack application for product and category management, built with clean architecture, component-driven design, and engineering best practices.

Backend

NestJS • TypeScript • PostgreSQL • Prisma ORM • Jest • Docker Compose

- RESTful API with full CRUD endpoints, pagination, filtering, and sorting.
- Layered architecture (controller, service, repository) following SOLID and Clean Architecture.
- Business rule validation (duplicates, required fields, deletion constraints) with standardized error handling.
- Relational database modeling (product, category, N:N relationship) with migrations and seeds.
- Unit tests for services and controllers, integration tests for repositories with isolated test database.

Frontend

React • TypeScript • React Router • React Hook Form • Tailwind CSS

- SPA interface with listing, search, create, edit and delete for products and categories.
- Reusable components (table, form, modal, pagination) organized by domain.
- Typed forms with real-time validation using React Hook Form and Zod.
- REST API consumption with loading, empty, error, and success state handling.

Technical Skills

Frontend: React • Next.js • TypeScript • JavaScript • HTML5 • CSS3 • Tailwind CSS • React Hook Form

Backend: Node.js • NestJS • APIs REST • PostgreSQL • MongoDB • MySQL • Redis • Python

DevOps e Cloud: AWS (Lambda, EC2, S3, DynamoDB) • Docker • GitHub Actions • CI/CD • Linux • VPS

Arquitetura & Engenharia: SOLID • Clean Architecture • Microsserviços • APIs RESTful • Git • Modelagem de Dados • Testes Unitários • Testes de Integração • Observabilidade

Metodologias: Scrum • Kanban • Desenvolvimento Ágil

Certifications

AWS Certified Cloud Practitioner (CLF-C02) - Amazon Web Services — 09/2024

Education

Associate Degree in Computer Systems

Universidade Federal Fluminense - UFF — 2026 to 2028 (in progress)

Languages

English — Advanced (C1 reading and writing | B2 conversation) — experienced with technical documentation, meetings, and professional communication in English