

Pedro de Oliveira Melo

Senior Software Engineer | Vue, React, Node.js | Payments and Product Engineering

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Profile

Senior software engineer with six years of experience delivering production web products across frontend, backend, integrations, and cloud infrastructure.

Deep expertise in Vue.js, Nuxt, and TypeScript, with production experience in React, Next.js, Node.js, Python, PHP, payment systems, and digital-asset workflows.

Comfortable owning ambiguous work end to end, from architecture and implementation through testing, release, production debugging, and operational handoff in small, fast-moving teams.

Experience

Confidential Fintech, Senior Software Engineer (Part-time Contract)

Remote

July 2026 – present

2 months

- Own end-to-end integrations across Node.js and TypeScript services and React/Next.js operational applications for regulated money movement.
- Shipped and production-tested a Pix integration with a Brazilian banking partner, covering authentication, payment lifecycle handling, validation, and asynchronous status updates.
- Designed resilient webhook and state-transition flows with signature verification, idempotency, retries, and terminal-state protection.
- Building a crypto on-ramp and off-ramp integration that orchestrates provider APIs while keeping internal transaction state consistent.
- Stack: Node.js, TypeScript, React, Next.js, Prisma, SQL, REST APIs, webhooks, Pix, Open Finance, crypto integrations.

TagPlus, Frontend Software Engineer

Brazil (Remote)

July 2026 – present

2 months

- Lead modernization of a seven-year-old Vue 2 and Nuxt Bridge application toward Nuxt 4 and Composition API architecture.
- Investigated, proposed, and implemented the migration from Webpack to Vite, improving build feedback loops and development experience.
- Refactored legacy Options API inheritance and internal caching behavior into clearer composables, utilities, and maintainable component contracts.
- Built a Neo4j-based dependency analyzer that maps tests to Vue single-file components despite legacy patterns that are difficult to resolve through conventional static analysis.

Skins.com, Lead Frontend Software Engineer

Remote

Feb 2026 – Aug 2026

7 months

- Led delivery of approximately 80% of the production frontend as the primary frontend engineer, taking the product from initial architecture through launch.
- Architected a Nuxt 4 SSR application with TypeScript and SCSS, reusable UI primitives, responsive product flows, and maintainable server-rendered patterns.
- Implemented dynamic Open Graph metadata and generated guide content to support discoverability and SEO across product pages.
- Integrated payment flows, authentication, and production APIs backed by Node.js services in a high-iteration startup environment.

Moonrail Limited B.V., Software Engineer

- Co-designed and implemented an in-house design system with Vue 3, TypeScript, Tailwind CSS, and Storybook.
- Delivered production wallet, onboarding, profile, referral, and compliance journeys for a crypto-native product.
- Migrated legacy Vue 2 modules to Vue 3 Composition API and strengthened maintainability through reusable architecture and code review.
- Built unit and component test coverage with Vitest and Jest and contributed to Laravel and MySQL-backed product workflows.

Europe (Remote)
Mar 2024 – July 2025
1 year 5 months

Instituto Modal de Tecnologia e Inovacao, Software Engineer

- Led frontend delivery of a multifactor authentication platform for SESP-ES using Vue 2, Nuxt, and Tailwind CSS.
- Built Python and Flask microservices and REST APIs on Azure for high-volume legal document processing workflows.
- Maintained Vue 3 and TypeScript products with Quasar and coordinated reliable frontend-backend contracts across distributed modules.

Brazil
Oct 2022 – Mar 2024
1 year 6 months

Embrapa Genetic Resources and Biotechnology, Software Engineering Intern

- Developed JavaScript components for Liferay portals, improving internal content and publication workflows for research teams.

Brazil
Apr 2022 – Sept 2022
6 months

University of Brasilia, Teaching Assistant - Algorithms and Computer Programming

- Guided students in Python, data structures, debugging, and clean-code practices across four semesters and maintained automated judge exercises.

Brasilia, Brazil
Jan 2021 – Jan 2022
1 year 1 month

AI-Augmented Delivery

Build repository-aware engineering workflows with coding agents, reusable skills, MCP integrations, Figma, GitHub/GitLab, Linear, and browser automation for implementation, review, debugging, and ticket triage.

Apply scoped context artifacts, automated tests, and human review to keep AI-assisted delivery reliable, auditable, and maintainable.

Education

B.S. CEUB - Centro Universitario de Brasilia, Computer Engineering (in progress)

Brasilia, Brazil
2024 – present

Certifications

Neo4j Certified Developer

July 2025

C2 (Proficient) - Business English

Skills

Programming: TypeScript, JavaScript, Python, PHP, SQL

Frontend: Vue 2/3, Nuxt 2/3/4, React, Next.js, Pinia, Vuex, Tailwind CSS, SCSS, Storybook, SSR, SSG

Backend and Integrations: Node.js, Flask, FastAPI, Laravel, Prisma, REST APIs, webhooks, payment orchestration, Pix, crypto on/off-ramps

Data: PostgreSQL, MySQL, MongoDB, Neo4j

Quality and Platform: Vitest, Jest, Docker, GitHub Actions, AWS, Azure, Cloudflare

Languages: Portuguese (native), English (C2)