PEDRO LUCENA

Senior Full-Stack Developer | TypeScript | React | Node.js

Senior Full-Stack Developer specializing in type-safe **TypeScript** architectures. **4+ years** building scalable **fintech** and **e-commerce** applications across international teams. Currently architecting monorepo systems in Switzerland with **React 19**, **Next.js 15**, and **tRPC**.

Front-End: React, React Native, Next.js, TanStack Start, Tailwind CSS
Back-End: Node.js, Bun, Hono, tRPC, REST APIs
Database: PostgreSQL, Prisma, Drizzle ORM
Cloud/DevOps: AWS S3, Cloudflare R2, Docker, Linux, CI/CD, GitHub Actions
AI: Prompt Engineering, Chatbot Development, OpenRouter
Languages: TypeScript, JavaScript

💼 PROFESSIONAL EXPERIENCE

Jan 2024 - Present

Full-Stack Developer
datalution GmbH, Switzerland

Architecting and developing **fintech applications** in a **Turborepo monorepo** with multiple interconnected projects.

- **Type-Safe APIs:** tRPC architecture with batch streaming links and end-to-end type-safety across 50+ routers.
- **React 19:** Implementation of useTransition, useOptimistic and useActionState for optimistic UI across 47+ forms.
- **Internationalization:** next-intl with dynamic localized routes in 4 languages (DE/EN/FR/IT) and 200+ pathnames.
- **PWA:** Complete Web Push Notifications system with service workers.
- **Auth:** Supabase Auth with OAuth (Google/Apple) + SMS verification via Twilio.
- **Payments:** Stripe integration with webhooks, customer portal and subscription management.
- **CI/CD:** GitHub Actions with automated deployment to VPS and Turborepo caching.

Stack: TypeScript, Next.js 15, React 19, tRPC, Prisma, PostgreSQL, Supabase, TanStack Query, Zustand, Zod, Tailwind CSS, Stripe, Resend, Twilio, Upstash Redis, GitHub Actions.

Jan 2023 - Dec 2023

Front-End Developer
Support Informática, Brazil

Developed custom **e-commerce templates** for stores and maintained a **React Native** app used by hundreds of establishments across the city, performing **major Expo version upgrades**, implementing new features and fixing a **critical bug** that displayed incorrect monetary values.

Led **optimization initiatives** on the e-commerce website, **reducing latency by 70%** (from 5 to 1.5 seconds), supporting high-traffic operations.

Architected and deployed the **stores CRM** from scratch, building the system structure and core functionalities.

Stack: TypeScript, React, React Native, TanStack Query, Zustand, Zod, Material UI, Tailwind CSS, REST APIs, GitHub Actions.

PERSONAL

👤 **Name**
Pedro Lucena

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pedrocontact22@gmail.com

🔗 **Portfolio**
pedrolucena.com

GitHub
github.com/PedroL22

LinkedIn
linkedin.com/in/pedrolucena22

LANGUAGES

English ★★★★★
Portuguese ★★★★★

Dec 2022 - Jan 2023

E-commerce Developer
Contract · Freelance, Portugal

Full-stack development of a complete e-commerce platform, from scratch to production.

- **Auth & Users:** Secure authentication system with registration, login and profile editing.
- **Product Catalog:** Complete product CRUD with details page, category listing, advanced filters and search.
- **Shopping Cart:** Functional cart with item addition, removal and review before purchase.
- **Admin Dashboard:** Central panel for product management, orders and operations monitoring.
- **Dynamic UI:** Adaptive header based on user interactions and page context.
- **Marketing:** Newsletter system for email collection and social media sharing functionality.

Stack: Python, Django, PostgreSQL, HTML/CSS.

Apr 2022 - Jul 2022

Full-Stack Developer
Contract · Caixa Angola, Angola

Complete System Development

Key Features:
- **Registration and Login System:** Secure implementation for account creation and user authentication.
- **Event Management:** System for creating and managing events with title, description and images.
- **Individual Grades:** System for assigning and viewing grades specific to each user.
- **AWS S3 Storage:** Use of an S3 bucket for static file storage.
- **Media Upload and Management:** Direct media file upload to S3 bucket, including file viewing and management.

Stack: Python, Django, PostgreSQL, AWS S3, HTML/CSS.

EDUCATION

2023 – 2027
(Expected)

Software Engineering
Estácio University