

PEDRO DARMA

Full-Stack & Mobile Engineer

React Native · React · Expo · TypeScript · Node.js · Real-Time Systems

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github.com/pedrodarma | darma.page

PROFESSIONAL SUMMARY

Full-Stack & Mobile Engineer with 19+ years of experience building consumer mobile and web products for startups and international companies across the US, Australia, Germany, and Brazil.

Production React Native and React experience: rewrote a healthcare video app and took it from iOS-only to Android and web on one Expo codebase, with EAS, over-the-air updates, CI/CD on GitHub Actions, and tests in Jest and Maestro. Comfortable owning architecture, state management, and API integration from idea to production.

Zero-to-one experience as a startup CTO, a self-built consumer fintech product (Cryptom, Next.js and Node.js), and a strong backend background in Node.js, TypeScript, GraphQL, PostgreSQL, and AWS.

TECHNICAL SKILLS

Frontend & Mobile: React Native, React, Expo (EAS, OTA updates), Next.js, TypeScript, JavaScript, Context API, Redux, MobX, Flutter, Swift

Testing & CI/CD: Jest, Maestro, Appium, GitHub Actions, CI/CD, Code Review, Agile/Scrum, System Design

Backend: Node.js, TypeScript, REST APIs, GraphQL, WebSockets, MQTT, Event-Driven Architecture, PHP (Laravel), Python

Databases: PostgreSQL, PostGIS, MySQL, MongoDB, Redis, SQLite, Microsoft SQL Server

Cloud & DevOps: AWS, Google Cloud, Fly.io, Docker, DigitalOcean, Deployment & Monitoring

Real-Time & Media: WebRTC, Mediasoup, WebSockets, FFmpeg, Geolocation

AI: AI-assisted development (Claude Code, OpenCode), Python, TensorFlow, Apple MLX, Machine Learning

PROFESSIONAL EXPERIENCE

Universal Language | USA, Remote

Sep 2023 – Nov 2025

Full-Stack Software Engineer

- Led development of Facetok, a real-time video interpretation app used by hospitals and patients; rewrote it from an MVP with business logic mixed into UI components, moving state to the Context API and upgrading React Native.
- Took the app from iOS-only to Android and web on one React Native + Expo codebase; cut build times by 40%.
- Integrated Expo EAS and CI/CD on GitHub Actions (store builds only when needed, smaller changes shipped over the air) and introduced Jest unit tests and Maestro end-to-end tests.
- Migrated real-time video from Vonage/OpenTok to WebRTC and Mediasoup to cut platform costs; refactored critical video components, improving connection stability by 30%.
- Built backend services and APIs with Node.js, GraphQL, PostgreSQL, WebSockets, and AWS, including SSO.

Tech: React Native, React, Expo, EAS, Node.js, GraphQL, PostgreSQL, WebRTC, Mediasoup, GitHub Actions, Jest, Maestro

Cryptom | Australia

2017 – 2023 | 2026 – Present

Software Engineer – Backend & Trading Systems

- Designed and developed a consumer crypto investment and trading platform (fintech) in Node.js and TypeScript.
- Built real-time market data processing over Binance WebSockets for 12 pairs across 6 timeframes (1m to 1w), calculating SMA, EMA, MACD, and RSI on every candle close.
- Built the consumer web app in Next.js and React with AI-assisted development (Claude Code, OpenCode): public site, sign-up, and a live dashboard charted with TradingView Lightweight Charts.
- Built event-driven services on a custom WebSocket message broker; Redis keeps service state across restarts.
- Scaled history to ~78M candles (12 pairs × ~6.5M) with table partitioning for query performance and retention.
- Implemented trading rules on support/resistance regions plus complementary strategies: cash management to grow the USDT balance and Donchian channels in uptrends.
- Containerized services with Docker on Google Cloud, Fly.io, and a home server via Cloudflare Tunnel.

Tech: Node.js, TypeScript, Next.js, React, Lightweight Charts, WebSockets, Redis, PostgreSQL, MongoDB, Docker, Google Cloud

Loudly | Berlin, Germany, Hybrid

2022 – 2023

Mobile Software Engineer

- Contributed to an AI-powered music generation platform used by content creators worldwide.
- Developed and maintained Flutter apps for iOS and Android (Bloc/Cubit) with native iOS components in Swift.
- Built and optimized audio processing with FFmpeg in native code, called from Flutter via platform channels.
- Maintained CI/CD pipelines for stable builds.

Tech: Flutter, Dart, Bloc/Cubit, Swift, FFmpeg, Platform Channels, iOS, Android, Stripe, SQLite

Metrobi | USA, Remote

2022

Full-Stack Software Engineer

- Built React Native, Expo, and React (MobX) apps for logistics, delivery management, and route optimization.
- Shipped app updates with Expo EAS, including over-the-air updates.
- Integrated APIs and backend services for operational workflows; coached and mentored teammates.

Tech: React Native, Expo, EAS, OTA updates, React, MobX, MongoDB, Firebase, Python

DarmaDev | Remote

Dec 2020 – Present

Independent Software Engineer

- Developed full-stack projects for personal and client use with Next.js, Node.js, Flutter (Redux), Redis, and WebSockets.
- Integrated hardware solutions using ESP8266 and ESP32 microcontrollers.

Tech: Next.js, Node.js, Flutter, Redux, Redis, WebSockets, ESP32

ArcTouch | USA, Remote

2020 – 2021

Mobile Software Engineer

- Developed enterprise-grade mobile apps for international clients using Swift and Flutter.
- Implemented iOS architectures with SwiftUI, Combine, RxSwift, and Realm.
- Contributed to R&D of a COVID-19 workplace monitoring solution (BLE, indoor positioning); performed code reviews.

Tech: Swift, SwiftUI, Combine, RxSwift, Flutter, Bluetooth/BLE, Realm

April9 | Brisbane, Australia

2018 – 2019

Software Engineer

- Delivered digital products for government and commercial clients, including the Greyhound Australia ticketing app and the Queensland Government MyPassport app (from inception to first production release).
- Built cross-platform mobile apps with Flutter and Redux, and web apps and backend integrations with React and Node.js.

Tech: Flutter, Dart, Redux, React, Node.js, TypeScript, SailsJS, RESTful APIs, .NET Core

PickMeApp | Belo Horizonte, Brazil

2014 – 2017

CTO & Development Lead

- Led the MVP and core platform from zero (design, architecture, development); raised a few investment rounds.
- Designed backend services, APIs, and real-time features (geolocation, route tracking, push notifications); moved from MySQL to PostgreSQL to use PostGIS for service areas.
- Managed native iOS and Android apps; oversaw infrastructure, deployments, monitoring, and production support.
- Recruited, mentored, and coordinated developers; worked with founders on product strategy and priorities.

Tech: PHP, Laravel, MySQL, PostgreSQL, PostGIS, Redis, Objective-C, Swift, Java, DigitalOcean

EARLIER EXPERIENCE

Getset – Founder & Development Lead: custom iOS and web solutions for Siemens and Government of Minas Gerais; team of up to 17. 2013 – 2016

Lalubema – Web & Mobile Developer (Objective-C, PHP/Laravel, C#/.NET, MSSQL). 2012 – 2013

W3 Net – Web Developer (C#, ASP.NET MVC, Microsoft SQL Server). 2011 – 2012

Takenet (now Blip) – Intern to Systems Analyst: mobile content stores for Vivo, TIM, and Claro. 2008 – 2011

EDUCATION

Bachelor's Degree in Computer Science – FUMEC, Belo Horizonte, Brazil 2007 – 2011

Diploma in Web Development – Mindroom Innovation, Gold Coast, Australia 2018 – 2020