

PEDRO DARMA

Full-Stack & Mobile Engineer

Node.js · TypeScript · React Native · Flutter · APIs · Real-Time Systems

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PROFESSIONAL SUMMARY

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

Strong backend experience with Node.js, TypeScript, REST APIs, GraphQL, WebSockets, Redis, PostgreSQL/MySQL/MongoDB, and AWS/Google Cloud, including real-time and event-driven systems. Takes features from architecture and implementation through deployment and production support, and has led teams and mentored developers.

Extensive mobile background (React Native, Expo, Flutter, Swift), able to work across backend, web, and mobile. Industries: healthcare, fintech, logistics, transportation, music technology, and telecom.

TECHNICAL SKILLS

Backend: Node.js, TypeScript, JavaScript, REST APIs, GraphQL, WebSockets, MQTT, Event-Driven Architecture, API Development, Third-Party API Integration, PHP (Laravel), Python

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

Cloud & DevOps: AWS, Google Cloud, Fly.io, Docker, CI/CD, Expo EAS, DigitalOcean, Deployment & Monitoring

Frontend & Mobile: React, Next.js, React Native, Expo, Flutter, Dart, Swift, SwiftUI, Objective-C, Redux, MobX, Bloc

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

Testing & Practices: Jest, Maestro, Appium, Code Review, Agile/Scrum, MVVM, System Design

AI / Data: Python, TensorFlow, Apple MLX, Machine Learning

PROFESSIONAL EXPERIENCE

Universal Language | USA, Remote

Sep 2023 – Nov 2025

Full-Stack Software Engineer

- Led development of healthcare communication solutions used by hospitals and patients requiring real-time video interpretation.
- Built backend services and APIs with Node.js, GraphQL, PostgreSQL, WebSockets, and AWS.
- Migrated real-time video from Vonage/OpenTok to WebRTC and Mediasoup to cut platform costs; refactored critical video components, improving connection stability by 30%.
- Developed cross-platform apps for iOS, Android, and Web with React Native and Expo; reduced build times by 40%.
- Rebuilt CI/CD on Expo EAS with over-the-air updates; introduced automated testing with Jest and Maestro.

Tech: Node.js, GraphQL, PostgreSQL, React Native, Expo, EAS, WebSockets, WebRTC, Mediasoup, AWS, Docker, Jest, Maestro

Cryptom | Australia

2017 – 2023 | 2026 – Present

Software Engineer – Backend & Trading Systems

- Designed and developed a cryptocurrency investment and trading platform in Node.js and TypeScript (Fintech, Digital Assets).
- Built real-time market data processing over Binance WebSockets for 12 crypto pairs across 6 timeframes (1m to 1w).
- Implemented technical-analysis pipelines calculating SMA, EMA, MACD, and RSI on every candle close.
- Developed event-driven services for market data, logging, and trade execution, connected through a custom WebSocket message broker; Redis keeps service state across restarts.
- Scaled history to ~78M candles (12 pairs × ~6.5M) plus computed indicators, using table partitioning for query performance and retention.
- Implemented trading rules based on support/resistance regions with configurable price margins; integrated exchange APIs for market data and order execution.
- Containerized services with Docker, deployed across Google Cloud, Fly.io, and a home server via Cloudflare Tunnel.

Tech: Node.js, TypeScript, Binance API, WebSockets, Redis, PostgreSQL, MongoDB, SQLite, MySQL, Docker, Google Cloud, Fly.io

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 integrated with native iOS components written in Swift.
- Built and optimized audio processing workflows using FFmpeg; maintained CI/CD pipelines for stable builds.
- Participated in code reviews and technical discussions to uphold engineering standards.

Tech: Flutter, Dart, Bloc, Swift, FFmpeg, Stripe, SQLite

Metrobi | USA, Remote

2022

Full-Stack Software Engineer

- Developed logistics and delivery management solutions supporting route optimization and business operations.
- Built mobile and web applications with React Native, Expo, and React; integrated APIs and backend services for operational workflows.
- Provided technical leadership through coaching and mentorship of teammates.

Tech: React Native, Expo, 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, Redis, and WebSockets.
- Integrated hardware solutions using ESP8266 and ESP32 microcontrollers.

Tech: Next.js, Node.js, Flutter, 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 research and development 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 design, architecture, and development of the MVP and core platform (mobility and logistics).
- 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; led a 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

Blip (Take.net) – Web Developer (C#, ASP.NET, Microsoft SQL Server).

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