Daniel Bernardino de Souza

Software Engineer · Full Stack · TypeScript, React, Node.js, NestJS

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Software engineer who builds web and mobile products from the database to the interface in TypeScript, React, Node.js and PostgreSQL, and adds LLMs where they actually help.

Experience

Fullstack Developer — Oct 2025 - Oct 2026

CodeSquare — *Remote*

- Cut a mortgage simulation for a correspondent partner of Brazil's largest home-loan bank from ~2 minutes by hand to 15 seconds in live tests: an LLM reads the buyer's documents, 8 rules check the record, a browser agent runs it.
- Cut a building-permit analysis from 3–4 days to under 1 in a city-hall side-by-side test with an AI pre-analysis, building its API, queue, DWG plan reading and JSON-Schema-bound LLM analysis.
- Cut ~79% off the slow paths of a work-management SaaS, keeping all 5 client teams that threatened to leave, with narrow endpoints, front-end caching, batched writes and logic moved to NestJS.
- Built the points ledger, freight, Mercado Pago and Stripe payments and a queue that holds a message until its coupon is released, for a loyalty panel of Uberlândia's top-of-mind coffee roaster.
- Built the roaster's React Native loyalty app end to end: email verification, Google sign-in, points and rewards.
- Cut switching organisation from 5 clicks to 2 and project to 1 with two linked sidebars.
- Migrated the SaaS's chat and its history from Firebase to Supabase, leaving one auth and data provider.
- **Tech stack:** TypeScript, React, Next.js, React Native, Electron, NestJS, Python, OpenAI API, PostgreSQL, Prisma, Drizzle ORM, Supabase, Playwright, Cloudflare Workers, Docker.

Software Engineer — Sep 2023 - Oct 2025

iForth Systems — *Remote*

- Re-engineered the shop-floor system of Dexco's ceramic-tile plants (one of Brazil's leading tile makers) from a Delphi/Firebird desktop app into a TypeScript, Node.js and React web app and a React Native app.
- Eliminated regressions in delivered screens (~2–3 a month → 0) with the team's first tests, in Jest and Playwright, and a GitHub Actions gate blocking merges to main below 80% coverage.
- Brought tool-breakage stoppages (~20 min of halted production each) to 0 over ~7 months by redesigning the tool-life module around a Python service that reads the plant's sensors.
- Ended false production stoppages at each on-premises power outage (1–2 a month) with an AWS failover instance.
- Kept 3 mission-critical systems running without interruption through monthly maintenance.
- Cut core-task delivery time from 4 days to 1 with a weekly feedback loop.
- Cut misaligned deliveries by 50% by standardising the development workflow.
- **Tech stack:** TypeScript, React, React Native, Recharts, Node.js, Express, Python, PostgreSQL, Jest, Playwright, GitHub Actions, AWS.

Education

Web Fullstack Development — Jul 2022 - May 2023

Driven Education — *Remote*

- Built an event-management back end in TypeScript, Express and Prisma, with a Jest suite run in Docker.
- Built a URL-shortening REST API in TypeScript, Express and Prisma with JWT auth.
- Built a Dockerized React, Express and PostgreSQL app behind an Nginx reverse proxy, wired with docker-compose.
- Built an Express API that stores image uploads on AWS S3, with MongoDB for persistence.
- Built the React front end of a link-sharing social app, deployed on Vercel.