David Lozano Jarque

Full stack software engineer: from scratch to production

Passionate about bringing ideas to life through code, I've been developing software since elementary school. Starting as a hobby, then alternating between freelance work and in-house development roles. I'm driven by the goal of contributing meaningfully to impactful projects that improve users' lives. I value transparency, attention to detail, collaboration and pragmatic solutions that deliver real results

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Experience

Software Engineer @ Self-employed   *May 2023 → Present*

Stepped away from full-time corporate roles to focus on in-depth technical knowledge. Explored topics such as deepening my Angular expertise, Semantic Release, creation and maintenance of JS libraries and JS/TS bundling optimizations. Complemented this technical growth with learning about team culture and engineering management, reading several key books on leadership and collaboration.

- Created an open-source library for managing site metadata (SEO, social sharing) publicly endorsed by an Angular Google Developer Expert
- Built a high-performance fashion stylist portfolio, leveraging images CDNs to optimize loading speed and achieve 95%+ scores in Core Web Vitals
- Contributed to open source through numerous pull requests, issue reports, and other public contributions: for example, by helping others in communities such as Discord, Reddit, and Stack Overflow

Ⓐ Angular   TS TypeScript   GitHub Actions   Ⓒ Cypress   ⚡ Cloudflare Pages   Ⓜ Material for MkDocs

semantic-release   Jest

Senior Backend Engineer @ Vesto   *Oct 2022 → Jul 2023*

Backend: web APIs and background processing. Led, engineered and assisted many product features. Proposed and implemented a strategy to improve app stability by reducing error rates. Focused on enhancing observability to enable for data-driven decision-making. Optimized internal processes to reduce customer support workload

- Led initiative that reduced wallet synchronization issues from 69% to 6%
- Developed direct batch buy feature to allow purchasing multiple stocks at once
- Introduced 'Learning Fridays' to foster knowledge sharing within the engineering team

🛤 Ruby on Rails   Sidekiq   PostgreSQL   Amazon RDS   🐳 Docker   Terraform   Redsys

GitHub Actions

Senior Software Engineer @ Koa Health   *Oct 2020 → May 2022*

Full stack: web APIs backend, web and mobile app. Joined to build the Mindset product within a small squad from the ground up. Led, developed and supported several of its features. Worked cross-functionally with product, design, QA, DevOps, cybersecurity, research and other products teams. Enhanced the company's design system library

- Joined as mid-level engineer; promoted to senior after first year's performance review

- Led development of key features such as in-app messaging between the web and mobile app, push notifications and guided audio exercises
- Two years later, the product was licensed for a €1M clinical trial with a major customer

TS TypeScript **JS** Node.js **PostgreSQL** **Flutter** **Angular** **Docker** **GitHub Actions** **Terraform**

Software Engineer @ Telefónica Alpha

Mar 2020 → Oct 2020

Belonged to the health moonshot unit, which later spun off into a standalone company. For more details on projects and responsibilities during this period, please refer to the Koa Health entry

Software Engineer @ BTC Assessors

Jun 2018 → Dec 2019

Full stack: web apps and peer to peer / web API backends. Served as the lead software engineer across all company projects. Acted as blockchain/distributed ledger technologies (DLT) consultant and researcher. Served as a board member in a technical advisor role for a planned in-house cryptocurrency investment fund

Software Engineer @ SEAT

Mar 2017 → Jun 2017

Coordinated integration of IBC Biomechanics software into SEAT's internal IT systems for use in their biomechanical laboratory at the CARS center, located within the Martorell headquarters

IT Manager @ Meditrauma

Jan 2015 → Jun 2018

Managed IT systems and infrastructure across all three company branches. Responsible for systems administration and general IT consulting, ensuring smooth operation of hardware, software, and network resources

Software Engineer @ IBC Biomechanics

Sep 2014 → Jun 2018

Developed a reporting application and several proof-of-concept apps for interfacing with biomechanical using Bluetooth. Also managed the IT systems of the company, supporting day-to-day operations

Education

Master's degree - MISTIC (Cybersecurity) @ UOC

Sep 2017 → Sep 2018

Completed coursework with a 8.14/10 grade (3.38 over 4 GPA). Unfinished degree

University degree - Computer Science @ UAB

Sep 2013 → Jun 2017

Graduated Cum laude with an 8.86 / 10 grade (3.85 over 4 GPA)

High school - Science and Technology @ IES Mollet

Sep 2011 → Jun 2013

Graduated Cum laude with a 9.76 over 10 grade (3.96 over 4 GPA)

Languages

(es) Spanish Native   **(ca) Catalan** Native   **(en) English** Advanced