



# Ruy Mallo

Senior Frontend & Mobile Tech Lead

Barcelona, Catalonia · English (full professional) · Spanish (native)

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## summary

Frontend and mobile tech lead with 10+ years building web and mobile products, most recently with React, React Native and Next.js. I lead a frontend team across a map-heavy agritech platform, own the mobile release pipeline, and run a multi-model LLM assistant in production. With Claude Code, AI agents are part of our team.

## experience

**Frontend Team Lead (Web & Mobile) · LAYERS · 2024 – now · Barcelona, Spain**

Leading a frontend team of four across four products of a map-heavy agritech platform: a React Native/Expo app, React and Next.js web apps, and an AI assistant for farmers. Maps: OpenLayers, Leaflet and Mapbox.

- Reworked how we plan, review and test, with shorter iterations, pre-production environments and stricter test gates for deploys. Within two months, with the same headcount, we were shipping over 20% more features per sprint and catching more bugs before they reached customers.
- Designed, built and run a production AI assistant that helps farmers make agronomic decisions from their own field data. It combines LLMs from Anthropic and other providers with in-house models, plus RAG, model routing, evals and guardrails.
- Led the mobile app's migration from bare React Native to Expo (Expo modules, config plugins, prebuild/CNG), and later rebuilt it on Expo SDK 55 / React 19 as fully offline-first: after login, it works without connectivity.
- Built and own the mobile release pipeline (GitLab CI + EAS): staging builds to TestFlight on every merge, tagged releases to the App Store and Google Play gated by unit tests, and forced-update support – replacing a Fastlane pipeline on dedicated Macs.
- Started the Next.js app and set up its GitLab CI/CD on AWS Amplify – per-branch review environments, test gates, Playwright end-to-end and visual-regression tests – and maintain the React app's container deploys on AWS, with Cypress, Lighthouse and automatic staging deploys.
- Run 1:1s and growth plans with each engineer, designed our hiring technical test and take part in technical interviews. Set the team's review standards: what/how/why MR descriptions, one approval, a daily review slot and pair programming.
- Help the team code with AI agents in Claude Code and OpenCode, using spec-driven development, context engineering, MCP and AI code review.

**Full Stack Engineer · Edpuzzle · 2022 – 2024 · Barcelona, Spain (remote)**

Full stack engineer at Edpuzzle, the interactive video learning platform used by millions of teachers and students, in a codebase structured around Domain-Driven Design (DDD). I rotated across several teams and led the mobile team.

- Led the migration of the React Native app to Expo, adopting Expo libraries for native features.
- Led the mobile side during the rollout of over-the-air (OTA) updates.
- At the company's first AI hackathon, my team won 2 of the 3 awards: Best Idea and Best UX/UI.

**Frontend Developer (Web & Mobile) • LAYERS • 2019 – 2022 • Barcelona, Spain**

Frontend developer on LAYERS' map-heavy agritech platform, in a team of four. I joined as a developer and became the team's go-to mobile engineer, leading the React Native app while contributing heavily to the React web app.

- Designed and built the React Native app that replaced two separate native apps – Android and iOS, each with its own developer. Owned the architecture, including an offline mode for field work; one codebase for both platforms sped up development.
- Built map features across platforms: OpenLayers on the web, Mapbox on mobile, and Leaflet for report generation.
- Improved performance with very large datasets through pagination and optimized data loading, cutting load times.

**Web UI Developer • Globant • 2018 – 2019 • Buenos Aires, Argentina**

- Built trading UI features in React and Redux on an Electron-based desktop runtime (OpenFin), with AG Grid data grids and Golden Layout multi-panel workspaces.
- Tuned grid and view performance for large data volumes.

**Frontend Developer • AB Project • 2017 – 2018 • Buenos Aires, Argentina**

- Built and customized client sites, landing pages and online stores on WordPress and Joomla, improving SEO, accessibility and page speed.
- Built a hybrid mobile app with Apache Cordova.

**Partner & Web Developer • ArtonWeb • 2012 – 2019 • Buenos Aires, Argentina**

- Built interactive presentations for advertising and film production companies, mostly web-based: ad launches, pitches and post-production meetings.

**› skills**

Frontend & mobile: JavaScript • TypeScript • React.js • React Native • Expo • Next.js • Redux.js • HTML • Front-end Development • Web Development • Mobile Application Development • App Store / Google Play publishing • Server-Side Rendering • Internationalization (i18n)  
Styling & UI: CSS • SASS • Tailwind CSS • Material UI (MUI) • shadcn/ui • Storybook • Design Systems • styled-components • Emotion • CSS Modules  
Maps & data: OpenLayers • Leaflet • Mapbox • Geographic Information Systems (GIS) • Data Visualization  
Backend & cloud: Node.js • Express.js • MongoDB • AWS • AWS Amplify • Docker • Terraform  
Quality & delivery: CI/CD • GitLab CI • Git • Jest • Playwright • Cypress • Maestro • Unit Testing • Test Automation • TDD • Performance Optimization • Code Review  
Architecture: Software Architecture • Domain-Driven Design (DDD)  
AI: Claude Code • Large Language Models (LLM) • Generative AI • Prompt Engineering • AI Agents • Retrieval-Augmented Generation (RAG) • Chatbot Development • Rapid Prototyping  
Leadership & people: Team Leadership • Technical Leadership • Mentoring • Technical Interviewing • Project Management • Agile Methodologies • JIRA  
Monitoring & analytics: Sentry • Segment  
Other: Electron • Linux

**› education**

Full Stack Web Development Certification • freeCodeCamp • 2016 – 2017

**› volunteer**

Organizer & Volunteer • CSSConf Argentina • 2018