ANTONIO LÓPEZ SOULT

Senior Frontend Engineer

📍 Seville, Spain antlopsou.dev@gmail.com +34 626 757 387

PROFESSIONAL PROFILE

Senior Software Engineer with over 8 years of specialized experience in designing and developing scalable mission-critical web applications. Expert in the **React** ecosystem, **TypeScript**, and distributed **Microfrontend** architectures (Webpack Module Federation). Currently leading the modernization of logistics and customs systems at **Inditex**, optimizing global document management and operational efficiency through advanced user interfaces. Passionate about code quality, automated testing, and technical mentorship in agile teams.

TECHNICAL SKILLS

Frontend Core

React.js (Hooks, Custom Hooks), TypeScript (Strict), JavaScript (ES6+), HTML5, CSS3 (Modules, SASS).

Architecture

Microfrontends (Webpack Module Federation), Clean Architecture, SPA, SOLID, Design Patterns.

State Management & Data

Redux (Toolkit, Saga), React Context API, React Query, Optimized Asynchronous Management.

Testing & DevOps

Jest, Vitest, React Testing Library, Cypress, CI/CD, Docker, GitFlow, SonarQube.

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer

Nov 2024 – Present

Inditex

Customs Clearance (Logistics & Customs) and IOP Documentación

- **Microfrontend Architecture:** Leading the implementation of a distributed architecture with **Webpack Module Federation** to decouple critical features in both projects.
- **UI/UX Optimization:** Designing interfaces for document management in IOP and for tariff headings and HS codes in Customs Clearance, helping customs agents work more efficiently.
- **Code Quality:** Standardizing TypeScript usage and increasing test coverage (Vitest/RTL) to ensure stability in a continuous deployment environment.
- **IOP Documentación:** Built the bulk upload microfrontend from scratch for the document management system used across all Inditex transport operations. Implemented chunked uploads and binary file type validation to improve performance and security.

Lex Documentación

- Internal document management system at Inditex.

Founder & Lead Full Stack Engineer

2025 – Present

ConsultIA - AI Medical Assistant (Startup)

Tech Stack: Expo, React Native, Node.js, Express, Prisma, Supabase, OpenAI API

- **AI-First Architecture:** Developing a health mobile app integrated with Generative AI for transcribing medical consultations and automatic data extraction (OCR) from clinical documents, generating structured appointment and medication records.
- **Multimodal Interface & Accessibility:** Implementing a conversational assistant (Voice/Text) with *Function Calling* to operate the app entirely via natural commands, facilitating use for the elderly.
- **Advanced Features:** created "Caregiver Mode" for delegated patient management and Premium subscription system. Robust backend in Node/Express deployed on Vercel with PostgreSQL database on Supabase.

Software Engineer (Frontend Specialist)

Jul 2022 - Nov 2024

Mercedes-Benz

Project: CaRT (Campaign Request Tool) - Industrial Incident Management

- **Performance Tuning:** Diagnosing and resolving application bottlenecks, reducing load times for international users.
- **End-to-End Development:** Responsible for the full cycle of new features, from requirements gathering to production deployment.
- **Security:** Implementing sensitive data protection measures in the frontend aligned with corporate standards.

Software Engineer (Frontend Consultant)

Jan 2018 – Jul 2022

Babel Sistemas de Información

- **Santander (Online Banking):** Development of the "Aleph" application for loan management. Migrating monolithic modules to a microfrontend architecture to improve team scalability.
- **AESA (Aviation Safety):** Executing the migration strategy for *legacy* applications, modernizing the tech stack to React and improving long-term maintainability.

Full Stack & Mobile Developer

2017 – Present

Freelance / Various Projects

- Integral design and construction (Web + App) for events like "Ruta del Atún", managing traffic spikes and real-time updates (React, React Native).
- Development of native Android applications (Kotlin/Java) for clients such as Emasesa and Línea Directa.

EDUCATION

- **Degree in Computer Engineering (Software Engineering)** - University of Seville.
- **Certifications:** SCRUM Developer Certified.